PNNL-15564

Data Report: Organic Water Chemistry for 2005 Storm Events in Support of the Storm Water Studies in Sinclair and Dyes Inlet, Washington

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Prepared for the
Puget Sound Naval Shipyard and
Intermediate Maintenance Facility
Project ENVVEST
Bremerton, Washington
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Pacific Northwest National Laboratory
Richland, Washington

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ABSTRACT

Sinclair Inlet and Dyes Inlet were listed on the State of Washington's 1998 Section 303(d) list of impaired waters because of fecal coliform contamination in marine waters and tributary streams, heavy metals and toxic organics in the bottom sediments, and polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCBs), aldrin, dieldrin, mercury (Hg), and arsenic (As) in the tissues of marine organisms. A cooperative watershed agreement for the inlets was established among the Puget Sound Naval Shipyard (PSNS) and Intermediate Maintenance Facility (IMF); the Environmental Protection Agency (EPA); the Washington State Department of Ecology (Ecology); and other technical stakeholders. The ENVironmental inVESTment group (ENVVEST) was formed to assist regulatory agencies in developing total maximum daily loads (TMDL) and to assess ecological risk within the watershed. ENVVEST identified contaminant loading during storm events as a data gap for the inlets. The 2005 storm water sampling program collected flow and water quality data from selected marine locations, representative streams, storm water outfalls, storm water drainages, and waste water treatment outfalls discharging in the Sinclair and Dyes Inlet watershed during seven winter/spring storm events. Storm event mean samples were analyzed for conventional water quality parameters, metals, and organic contaminants. The 2005 storm water data were reported in a series of three reports: conventional parameters, metals chemistry, and organic contaminants. This report summarizes the 2005 organic contaminants data and quality control sample information.

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OVERVIEW

The Sinclair/Dyes Inlets watershed is located within Kitsap County, Washington. The boundaries of the watershed include the receiving waters of Sinclair and Dyes Inlets, which are connected to the main basin of Puget Sound through two passages. Sinclair Inlet and Dyes Inlets were listed on the State of Washington's 1998 Section 303(d) list of impaired waters because of fecal coliform contamination in marine waters and tributary streams, heavy metals and toxic organics in the bottom sediments, and polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCBs), aldrin, dieldrin, mercury (Hg), and arsenic (As) in the tissues of marine organisms (Ecology 1998). A cooperative watershed agreement for the inlets was established among the Puget Sound Naval Shipyard (PSNS) and Intermediate Maintenance Facility (IMF); the Environmental Protection Agency (EPA); the Washington State Department of Ecology (Ecology); and other technical stakeholders. These cooperative agreements led to the development of an environmental investment project known as Project ENVVEST. The focus of Project ENVVEST is to assist regulatory agencies in developing total maximum daily loads (TMDL) and assessing ecological risk within the watershed. Project ENVVEST will provide regulatory agencies with data that will help them understand and address sources of pollution coming into the inlets.

One task within the ENVVEST program was the 2005 Storm Event Sampling in the Sinclair and Dyes Inlet Watershed. The objectives of this project were to obtain data to support total loading and modeling analysis of contaminants discharged into Sinclair and Dyes Inlets, to develop preliminary data on contaminant levels in nonpoint source runoff in Gorst to evaluate the potential for developing restoration alternatives, and to assess the impact of storm event runoff on the water quality of the inlets. The data obtained from these sampling efforts will be used to elucidate the interconnection of water quality and watershed hydrology, land use, and land cover. The project focused on collecting flow and water quality data from representative streams, storm water outfalls, storm water drainages, and waste water treatment outfalls discharging in the Sinclair and Dyes Inlet watershed during storm events in winter/spring 2005. Storm water was collected from three regions within the watershed: 1) Gorst (head of Sinclair Inlet), 2) Sinclair Inlet, and

3) Dyes Inlet. In addition to storm water, ambient marine samples were collected following each storm event to assess the impact of storm event runoff on ambient water quality in the inlets.

Storm event sampling was conducted by The Environmental Company (TEC) and PSNS. Samples were collected from qualifying storm events, which were defined as storms resulting in more than 0.25 inches of rain within a 24-hour period, following a discernable period of no rainfall. Storm water samples were collected throughout the storm event using either a portable Isco autosampler (ISCO) programmed to create 3-4-hour composites or discrete grab samples collected at the beginning, middle, and end of each storm. Immediately following the storm event, data from each of the flow monitors were downloaded and processed to produce the storm hydrograph for selected stations. The storm hydrographs along with physical data (temperature, salinity, turbidity and pH) were used to develop a *post-hoc* compositing scheme to best represent storm water flow and to eliminate periods of tidal intrusion and low-to-no flow for each event-mean composite sample. Samples and data were collected for the following regions and storm events:

1. Gorst: 17-18 January 2005
2. Gorst: 22 January 2005
3. Sinclair: 28 February to 1 March 2005
4. Sinclair: 19-20 March 2005
5. Dyes: 26 March, 2005
6. Dyes: 31 March to 1 April 2005
7. Bainbridge Island: 10-11 April 2005.

Samples were composited at Battelle Marine Sciences Laboratory and analyzed for conventional water chemistry parameters, nutrients, metals, and toxic organics to obtain storm event mean concentrations of contaminants. This report summarizes the conventional water chemistry and nutrient data for the 2005 storm water samples. The list of possible water chemistry parameters includes: alkalinity, hardness, total solids (TS), total suspended solids (TSS), total organic carbon (TOC), dissolved organic carbon (DOC), ammonia as nitrogen, nitrate plus nitrite, total nitrogen, and total phosphorus.

For additional project information see the following documents:

- Storm Event Sampling in the Sinclair and Dyes Inlet Watershed: FY2005 Quality Assurance Project Plan – PSNS Project ENVVEST Study Area (TEC 2004a).
- Sampling and Analysis Plan for In-Stream and Storm Water Chemical and Flow Characteristics – PSNS Project ENVVEST Study Area (TEC 2004b).
- Health and Safety Plan for Sampling and Analysis of In-Stream and Storm Water Chemical and Flow Characteristics – PSNS Project ENVVEST Study Area (TEC 2004c).
- Gorst Storm Event 1: Field Sampling Report for the storm on 17-18 January 2005 (TEC 2005a).
- Gorst Storm Event 2: Field Sampling Report for the storm on 22 January 2005 (TEC 2005b).
- Sinclair Storm Event 1: Field Sampling Report for the storm on 28 February – 1 March 2005 (TEC 2005c).
- Sinclair Storm Event 2: Field Sampling Report for the storm on 19-20 March 2005 (TEC 2005d).
- Dyes Storm Event 1: Field Sampling Report for the storm on 26 March 2005 (TEC 2005e).
- Dyes Storm Event 2: Field Sampling Report for the storm on 31 March- 1 April 2005 (TEC 2005f).
- Springbrook Creek Sampling Event: Field Sampling Report for the storm on 10-11 April 2005 (TEC 2005g).

Equipment Blank Results: 2005 Storm Water Organic Contaminants

- PAHs
- PCBs
- QA Narrative

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SINCLAIR AND DYES INLET 2005 STORMWATER
2005 Stormwater Equipment Blank
PAH/Phthalate Results for Water Samples
Reported in ng/L

PAH Results

MSL Sample ID	Client ID	Site Description	Collection Date	Extraction Date	Analysis Date	Surrogate:	naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine	phenanthrene
							d8 naphthalene	*d8 naphthalene*	*d10 acenaphthene*	*d10 acenaphthene*	*d10 acenaphthene*	*d10 phenanthrene*
2318-1	BST12-RB	Equipment Blk	12/3/2004	12/7/2004	1/3/2005		**64.3**	**17.1 J**	10.1 U	9.50 U	8.38 U	12.9 U
Blanks												
Method Blank (1)	23181 Blank	--	--	12/7/2004	1/3/2005		8.35 U	10.0 U	12.8 U	12.1 U	10.6 U	16.4 U
Blank Spike Results												
Blank	23181 Blank	--	--	12/7/2004	1/3/2005		8.35 U	10.0 U	12.8 U	12.1 U	10.6 U	16.4 U
Blank Spike A	23181 Blank Spike A	--	--	12/7/2004	1/3/2005		**570**	**570**	**602**	**626**	**647**	**710 ***
Blank Spike B	23181 Blank Spike B	--	--	12/7/2004	1/3/2005		**532**	**532**	**542**	**571**	**571**	**627**
	Spike Concentration						625	625	625	625	625	625
	Percent Recovery A						**91%**	**91%**	**96%**	**100%**	**103%**	**114%**
	Percent Recovery B						**85%**	**85%**	**87%**	**91%**	**91%**	**100%**
LABORATORY REPORTING LIMIT (RL)							**20**	**20**	**20**	**20**	**20**	**20**

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SINCLAIR AND DYES INLET 2005 STORMWATER
2005 Stormwater Equipment Blank
PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Collection Date	anthracene *d10 phenanthrene*	fluoranthene *d12 chrysene*	pyrene *d12 chrysene*	benz[a]anthracene *d12 chrysene*	chrysene *d12 chrysene*	benzo[b]fluoranthene *d12 perylene*
2318-1	BST12-RB	Equipment Blk	12/3/2004	9.10 U	14.1 U	14.7 U	12.6 U	13.9 U	12.0 U
Blanks									
Method Blank (1)	23181 Blank	--	--	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U	15.3 U,*
Blank Spike Results									
Blank	23181 Blank	--	--	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U	15.3 U
Blank Spike A	23181 Blank Spike A	--	--	**690 ***	**722 ***	**721 ***	**683 ***	**663 ***	**617**
Blank Spike B	23181 Blank Spike B	--	--	**589**	**606**	**597**	**494**	**476**	**375**
	Spike Concentration			625	625	625	625	625	625
	Percent Recovery A			**110%**	**116%**	**115%**	**109%**	**106%**	**99%**
	Percent Recovery B			**94%**	**97%**	**95%**	**79%**	**76%**	**60%**
LABORATORY REPORTING LIMIT (RL)				**20**	**20**	**20**	**20**	**20**	**20**

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SINCLAIR AND DYES INLET 2005 STORMWATER
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PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Collection Date	benzo[k]fluoranthene *d12 perylene*	benzo[a]pyrene *d12 perylene*	indeno[1,2,3-c,d]pyrene *d12 perylene*	dibenz[a,h]anthracene *d12 perylene*	benzo[g,h,i]perylene *d12 perylene*
2318-1	BST12-RB	Equipment Blk	12/3/2004	11.4 U	13.6 U	11.2 U	10.6 U	11.3 U
Blanks								
Method Blank (1)	23181 Blank	--	--	14.5 U,*	17.2 U,*	14.3 U,*	13.4 U,*	14.4 U,*
Blank Spike Results								
Blank	23181 Blank	--	--	14.5 U	17.2 U	14.3 U	13.4 U	14.4 U
Blank Spike A	23181 Blank Spike A	--	--	**649**	**561**	**351**	**390**	**360**
Blank Spike B	23181 Blank Spike B	--	--	**370**	**351**	**176**	**187**	**196**
	Spike Concentration			625	625	625	625	625
	Percent Recovery A			**104%**	**90%**	**56%**	**62%**	**58%**
	Percent Recovery B			**59%**	**56%**	**28% &**	**30% &**	**31% &**
LABORATORY REPORTING LIMIT (RL)				**20**	**20**	**20**	**20**	**20**

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SINCLAIR AND DYES INLET 2005 STORMWATER
2005 Stormwater Equipment Blank
PAH/Phthalate Results for Water Samples

				Phthalate Results			**Surrogate Recoveries**				
				di-N-butyl phthalate	**butylbenzyl phthalate**	**bis(2-ethylhexyl) phthalate**	**d8 naphthalene**	**d10 acenaphthene**	**d10 phenanthrene**	**d12 chrysene**	**d12 perylene**
							(%)	*(%)*	*(%)*	*(%)*	*(%)*
MSL Sample ID	**Client ID**	**Site Description**	**Collection Date**	*d10 phenanthrene*	*d12 chrysene*	*d12 perylene*					
2318-1	BST12-RB	Equipment Blk	12/3/2004	**439 EB**	**96.4 EB**	**424 EB**	78%	82%	92%	67%	56%
Blanks											
Method Blank (1)	23181 Blank	--	--	**873** E	**191** E	**660** E*	88%	96%	95%	60%	39% #
Blank Spike Results											
Blank	23181 Blank	--	--	**873** E	**191** E	**660** E*	88%	96%	95%	60%	39% #
Blank Spike A	23181 Blank Spike A	--	--	**302** EB*	**145** EB*	**377** EB	90%	101%	123% #	122% #	108%
Blank Spike B	23181 Blank Spike B	--	--	**310** EB	**190** EB	**355** EB	78%	86%	99%	76%	60%
	Spike Concentration			1250	1250	1250					
	Percent Recovery A			**NC**	**NC**	**NC**					
	Percent Recovery B			**NC**	**NC**	**NC**					
LABORATORY REPORTING LIMIT (RL)				**40**	**40**	**40**					

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SINCLAIR AND DYES INLET 2005 STORMWATER
2005 Stormwater Equipment Blank
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Collection Date	Extraction Date	Analysis Date	Aroclor 1268 (ng/L)	PCB008 (ng/L)	PCB018 (ng/L)	PCB028 (ng/L)	PCB052 (ng/L)	PCB044 (ng/L)	PCB066 (ng/L)	PCB101 (ng/L)
2318-1	BST12-RB	Equipment Blk	12/3/2004	12/7/2004	12/22/2004	25.7 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U	0.19 U
Blanks													
Method Blank (1	23181 Blank	--	--	12/7/2004	12/22/2004	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U	0.19 U
Blank Spike Results													
Blank	23181 Blank	--	--	12/7/2004	12/22/2004	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U	0.19 U
Blank Spike A	23181 Blank Spike A	--	--	12/7/2004	12/22/2004	32.6 U	**26.0**	**27.5**	**24.8**	**24.6**	**24.4**	**35.7**	**34.7**
Blank Spike B	23181 Blank Spike B	--	--	12/7/2004	12/22/2004	32.6 U	**23.8**	**25.6**	**23.3**	**21.6**	**21.7**	**29.6**	**31.1**
	Spike Concentration					NS	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery A					**NA**	**104%**	**110%**	**99%**	**98%**	**98%**	**143% &**	**139% &**
	Percent Recovery B					**NA**	**95%**	**102%**	**93%**	**86%**	**87%**	**118%**	**124% &**
LABORATORY REPORTING LIMIT (RL)						**40**	**2**	**2**	**2**	**2**	**2**	**2**	**2**

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SINCLAIR AND DYES INLET 2005 STORMWATER
2005 Stormwater Equipment Blank
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Collection Date	PCB077 (ng/L)	PCB118 (ng/L)	PCB153 (ng/L)	PCB105 (ng/L)	PCB138 (ng/L)	PCB126 (ng/L)	PCB187 (ng/L)	PCB128 (ng/L)	PCB200 (ng/L)	PCB180 (ng/L)
2318-1	BST12-RB	Equipment Blk	12/3/2004	**1.52** J	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U	0.40 U	0.32 U
Blanks													
Method Blank (1	23181 Blank	--	--	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U	0.40 U	0.32 U
Blank Spike Results													
Blank	23181 Blank	--	--	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U	0.40 U	0.32 U
Blank Spike A	23181 Blank Spike A	--	--	**34.6**	**35.1**	**36.6**	**35.4**	**34.3**	**39.2**	**37.1**	**36.3**	**36.1**	**27.7**
Blank Spike B	23181 Blank Spike B	--	--	**28.3**	**20.9**	**33.4**	**29.5**	**28.9**	**31.3**	**31.5**	**27.7**	**28.2**	**18.4**
	Spike Concentration			25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery A			**138% &**	**140% &**	**146% &**	**142% &**	**137% &**	**157% &**	**148% &**	**145% &**	**144% &**	**111%**
	Percent Recovery B			**113%**	**84%**	**134% &**	**118%**	**116%**	**125% &**	**126% &**	**111%**	**113%**	**74%**
LABORATORY REPORTING LIMIT (RL)				**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**

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SINCLAIR AND DYES INLET 2005 STORMWATER
2005 Stormwater Equipment Blank
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Collection Date	Surrogate Recoveries PCB170 (ng/L)	PCB195 (ng/L)	PCB103 % Recovery	PCB198 % Recovery
2318-1	BST12-RB	Equipment Blk	12/3/2004	0.35 U	1.12 U	60%	87%
Blanks							
Method Blank (1	23181 Blank	--	--	0.35 U	1.12 U	70%	120%
Blank Spike Results							
Blank	23181 Blank	--	--	0.35 U	1.12 U	70%	120%
Blank Spike A	23181 Blank Spike A	--	--	**32.2**	**34.6**	93%	150% #
Blank Spike B	23181 Blank Spike B	--	--	**28.5**	**28.2**	76%	115%
	Spike Concentration			25.0	25.0		
	Percent Recovery A			**129% &**	**138% &**		
	Percent Recovery B			**114%**	**113%**		
LABORATORY REPORTING LIMIT (RL)				**2**	**2**		

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ORGANIC CHEMISTRY
DATA QUALIFIERS
SINCLAIR AND DYES INLET 2005 STORMWATER

U	Not detected at or above DL shown
J	Concentration less than RL but greater than MDL
B	Sample concentration is <10x blank
E	Estimate; see narrative
NA	Not available/applicable
NC	Not calculated; see narrative
NS	Sample not spike for this analyte
&	Outside Project DQOs for Spike recovery (40-120%) or Replicate Analysis (≤30%)
#	Outside Project DQOs for Surrogate recovery (40-120%)
*****	Associated Surrogate exceeded Project DQO guidelines

QA/QC NARRATIVE

PROJECT: Sinclair and Dyes Inlet Storm Water Study – 2005 Storm Water Study Equipment Blank
PARAMETER: Organics – PAH, Phthalates and PCBs
LABORATORY: Battelle Marine Sciences Laboratory, Sequim, Washington
MATRIX: Equipment Blank Water from the ISCO Sampler

SAMPLE CUSTODY AND PROCESSING: Battelle received equipment blank water collected using the ISCO sampler during a mock deployment at station B-ST12. The sampler collected deionized water over a 17-hour period from 12/02/04 1247 to 12/03/04 0632. All samples were received in good condition. The samples were composited at MSL using equal proportions of each discrete sample. The composite sample was analyzed for organics (PAHs, Phthalates, and PCBs).

Samples were assigned a Battelle Central File (CF) identification number (2318) and were entered into Battelle's sample tracking system.

The following lists information on sample receipt and processing activities:

EVENT	Composite Collection Date	Laboratory Arrival Date	Extraction Date	PAH/ Phthalate Analysis Date	PCB Analysis Date
FY05 Equipment Blank Test	12/02/04 to 12/03/04	12/3/04	12/7/04	1/3/05	12/22/04

QA/QC PROJECT DATA QUALITY OBJECTIVES:

Analyte	Analytical Method	Reporting Limits (ng/L)	MS Range of Recovery	Laboratory Control Sample	Surrogate Spike Recovery
PAH	GC-MS	20	40-120%	40-120%	40-120%
Phthalates	GC-MS	40	40-120%	40-120%	40-120%
PCB Congeners	GC-ECD	2	40-120%	40-120%	40-120%
Aroclor 1268	GC-ECD	40	40-120%	40-120%	40-120%

METHODS: All samples were extracted and analyzed in accordance with the following Battelle methods:

- *MSL-O-010 Extraction and Cleanup of Water for Semivolatile Organics Following the Surrogate Internal Standard Method.*
- *MSL-O-008 Operation and Maintenance of Gas Chromatographs (GC) and Gas Chromatograph/Mass Spectrometer (GC/MS) Systems.*
- *MSL-O-015 Identification and Quantification of Polynuclear Aromatic Hydrocarbons by Gas Chromatography/Mass Spectrometry Following EPA Method 8270B Quality Control Criteria.*
- *MSL-O-016 Analysis of PCBs and Chlorinated Pesticides by Gas Chromatography with Electron Capture Detection Following EPA METHOD 8080A Quality Control Criteria.*

Results are reported as not blank corrected in units of ng/L for each sample.

HOLDING TIMES: Established holding times of 7 days from collection for the extraction procedure and 40 days from extraction for the analyses were achieved for all samples.

DETECTION LIMITS: Detection limits were determined on a per sample basis and data are flagged (U) using sample specific MDLs. Reporting limits (RL) were established based on a low standard concentration and data are flagged (J) to identify concentrations less than the RL but greater than the MDL.

QA/QC NARRATIVE

DATA QUALIFIERS:

U Not detected at or above MDL, sample specific MDL reported
J Concentration less than RL but greater than MDL
E Estimate
& Spiked sample outside control limits of 40-120% recovery; precision <30%
B Sample concentration is <10x blank
* Associated Surrogate recovery exceeds control limit (flag applied to samples)
# Surrogate recovery outside control limits (40-120% - flag applied to surrogate)

METHOD BLANK:

PAHs and Phthalates:
One method blank was analyzed by extracting one liter of reagent water. Analytes were not detected in the PAH method blank above the MDL. The three phthalate compounds were detected in the blank. The phthalate data are flagged as estimates and data usage should be limited to research evaluation.

PCBs:
One method blank was analyzed by extracting one liter of reagent water. Analytes were not detected in the blank above the RL.

LABORATORY CONTROL SAMPLE/BLANK SPIKE RECOVERY:

PAHs and Phthalates:
One set of blank spike/blank spike duplicates was analyzed with the samples. Blank spike samples were within the QC criterion of 40-120% for all PAH compounds with the following exceptions for the blank spike duplicate: indeno[1,2,3-c,d]pyrene (28%), dibenz[a,h]anthracene (30%), and benzo[g,h,i]perylene (31%).

One set of blank spike/blank spike duplicates was prepared and analyzed for bis (2-ethylhexyl) phthalate, di-n-butyl phthalate, and butyl benzyl phthalate. However, due to the detected blanks, recoveries were not calculated. The data are flagged as estimates and data usage should be limited to research evaluation.

PCBs:
One set of blank spike/blank spike duplicates was analyzed with the samples. Due to a high surrogate recovery for blank spike A, several congeners were outside the project QC criterion of 40-120% recovery. Acceptable blank spike recoveries are reported for blank spike B with the exception of PCB101, PCB153, PCB126, and PCB187. The impact to the data is negligible as the recoveries were high and the sample concentrations for these congeners were all less than the MDL.

LABORATORY PRECISION:

There was insufficient sample available for a MS/MSD pair or a laboratory duplicate.

SURROGATE RECOVERIES:

Surrogates compounds were used to evaluate the recovery of the extraction and clean-up process for the PAHs, phthalates, and PCB congeners.
PAHs and Phthalates:
The percent recovery for the surrogate d12 perylene (39%) was outside the project QC criterion of 40-120% recovery for the method blank. The surrogate was flagged and the associated sample concentrations were flagged. Although the surrogate recovery was low, the data are not impacted as the surrogates for the EB water are within the QC criterion and contained no detectable PAH compounds associated to this surrogate. The percent recoveries for PAH surrogates d10 phenanthrene (123%) and d12 chrysene (122%) were outside the project QC criterion of 40-120%, but meet the SOP QC criterion of 50-150%. The surrogate recovery is flagged (#) and the PCB congeners associated to this surrogate are flagged (*).
PCBs:
The PCB198 surrogate for blank spike A was outside the project QC criterion of 40-120%, but meets the SOP criterion of 50-150% recovery. The data are flagged.

Field Data Summary: 2005 Storm Water Organic Contaminants - PAHs

- Gorst
- Sinclair Inlet
- Dyes Inlet, Wet Season Baseflow

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PAH Results

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Surrogate:	naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine	phenanthrene
								d8 naphthalene	*d8 naphthalene*	*d10 acenaphthene*	*d10 acenaphthene*	*d10 acenaphthene*	*d10 phenanthrene*
2318-60	T1100	LMK136	Storm 1	01/17/05	1/20/2005	2/16/2005		**22.8**	10.1 U	8.64 U	8.15 U	7.20 U	**20.6**
2318-62	T1102	GC-SAN	Storm 1	01/17/05	1/20/2005	2/16/2005		**16.5 J**	8.57 U	7.30 U	6.89 U	6.08 U	9.37 U
2318-63	T1103	AC	Storm 1	01/17/05	1/20/2005	2/16/2005		**10.3 J**	9.68 U	8.24 U	7.78 U	6.87 U	10.6 U
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	1/21/2005	2/16/2005		**74.8**	**50.4** E	7.30 U	6.89 U	**15.8 J**	**56.9**
2318-65	T1105	LMK038	Storm 1	01/17/05	1/21/2005	2/16/2005		**20.0**	8.70 U	7.41 U	6.99 U	6.18 U	**18.6 J**
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	1/21/2005	2/16/2005		**8.60 J**	7.98 U	6.80 U	6.42 U	5.66 U	**13.2 J**
2318-71	T1114	AC-DUP	Storm 1	01/17/05	1/21/2005	2/16/2005		**10.2 J**	8.57 U	7.30 U	6.89 U	6.08 U	9.37 U
2318-128	T1107	LMK 136	Storm 2	01/22/05	1/26/2005	2/16/2005		**10.9 J**	8.09 U	6.89 U	6.50 U	5.74 U	8.85 U
2318-129	T1111	LMK 122	Storm 2	01/22/05	1/26/2005	2/16/2005		**12.8 J**	8.24 U	7.02 U	6.62 U	5.85 U	**10.1 J**
2318-130	T1112	LMK 038	Storm 2	01/22/05	1/26/2005	2/16/2005		**152**	**32.0** E	7.18 U	6.78 U	5.98 U	9.23 U
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	1/26/2005	2/16/2005		**10.0 J**	7.77 U	6.62 U	6.25 U	5.52 U	8.50 U
LABORATORY REPORTING LIMIT (RL)								**20**	**20**	**20**	**20**	**20**	**20**

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MSL Sample ID	Client ID	Site Description	Event	Collection Date	anthracene *d10 phenanthrene*	fluoranthene *d12 chrysene*	pyrene *d12 chrysene*	benz[a]anthracene *d12 chrysene*	chrysene *d12 chrysene*	benzo[b]fluoranthene *d12 perylene*	benzo[k]fluoranthene *d12 perylene*
2318-60	T1100	LMK136	Storm 1	01/17/05	7.82 U	**29.3**	**31.2**	**12.9 J**	**18.7 J**	**18.1 J**	9.81 U
2318-62	T1102	GC-SAN	Storm 1	01/17/05	6.60 U	10.2 U	10.6 U	9.14 U	10.1 U	8.73 U	8.29 U
2318-63	T1103	AC	Storm 1	01/17/05	7.46 U	11.5 U	12.0 U	10.3 U	11.4 U	9.86 U	9.36 U
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	**19.7 J**	**45.8**	10.6 U	**18.7 J**	**47.3**	**21.5**	8.29 U
2318-65	T1105	LMK038	Storm 1	01/17/05	6.71 U	**41.0**	**37.8**	**12.6 J**	**22.6**	**24.4**	8.42 U
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	6.15 U	**22.4**	**27.2**	8.51 U	**13.1 J**	**12.4 J**	7.72 U
2318-71	T1114	AC-DUP	Storm 1	01/17/05	6.60 U	10.2 U	10.6 U	9.14 U	10.1 U	8.73 U	8.29 U
2318-128	T1107	LMK 136	Storm 2	01/22/05	6.23 U	9.63 U	10.1 U	8.63 U	9.50 U	8.24 U	7.82 U
2318-129	T1111	LMK 122	Storm 2	01/22/05	**11.2 J**	**10.2 J**	**15.7 J**	8.79 U	9.68 U	8.39 U	7.97 U
2318-130	T1112	LMK 038	Storm 2	01/22/05	6.50 U	10.0 U	10.5 U	8.99 U	9.91 U	8.59 U	8.16 U
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	5.99 U	9.25 U	9.66 U	8.29 U	9.13 U	7.92 U	7.52 U
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**20**	**20**	**20**	**20**	**20**

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									Phthalate Results	
					benzo[a]pyrene	**indeno[1,2,3-c,d]pyrene**	**dibenz[a,h]anthracene**	**benzo[g,h,i]perylene**	**di-N-butyl phthalate**	**butylbenzyl phthalate**
MSL Sample ID	**Client ID**	**Site Description**	**Event**	**Collection Date**	*d12 perylene*	*d12 perylene*	*d12 perylene*	*d12 perylene*	*d10 phenanthrene*	*d12 chrysene*
2318-60	T1100	LMK136	Storm 1	01/17/05	11.6 U	**12.5 J**	9.08 U	**16.0 J**	**768** BE	**425** BE
2318-62	T1102	GC-SAN	Storm 1	01/17/05	9.83 U	8.16 U	7.67 U	8.20 U	**256** BE	**140** BE
2318-63	T1103	AC	Storm 1	01/17/05	11.1 U	9.21 U	**20.9 B**	9.26 U	**1375** BE	**738** BE
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	**13.9 J**	**12.0 J**	7.67 U	**16.8 J**	**372** BE	**240** BE
2318-65	T1105	LMK038	Storm 1	01/17/05	**13.7 J**	**14.5 J**	7.79 U	**16.2 J**	**149** BE	**179** BE
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	9.16 U	**7.98 J**	7.14 U	**12.9 J**	**156** BE	**143** BE
2318-71	T1114	AC-DUP	Storm 1	01/17/05	9.83 U	8.16 U	7.67 U	8.20 U	**161** BE	**113** BE
2318-128	T1107	LMK 136	Storm 2	01/22/05	9.28 U	7.70 U	7.24 U	7.74 U	**569** BE	**246** BE
2318-129	T1111	LMK 122	Storm 2	01/22/05	9.45 U	7.84 U	7.37 U	7.88 U	**673** BE	**285** BE
2318-130	T1112	LMK 038	Storm 2	01/22/05	9.67 U	8.03 U	7.55 U	8.07 U	**174** BE	**168** BE
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	8.92 U	7.40 U	6.96 U	7.43 U	**118** BE	**108** BE
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**20**	**20**	**40**	**40**

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Surrogate Recoveries

MSL Sample ID	Client ID	Site Description	Event	Collection Date	bis(2-ethylhexyl) phthalate *d12 perylene*		d8 naphthalene (%)	d10 acenaphthene (%)	d10 phenanthrene (%)	d12 chrysene (%)	d12 perylene (%)
2318-60	T1100	LMK136	Storm 1	01/17/05	**3769**	BE	85%	96%	111%	106%	106%
2318-62	T1102	GC-SAN	Storm 1	01/17/05	**860**	BE	82%	94%	102%	94%	97%
2318-63	T1103	AC	Storm 1	01/17/05	**1509**	BE	75%	82%	89%	82%	82%
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	**2862**	BE	63%	75%	83%	79%	82%
2318-65	T1105	LMK038	Storm 1	01/17/05	**2411**	BE	69%	76%	80%	78%	76%
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	**2658**	BE	59%	68%	72%	70%	72%
2318-71	T1114	AC-DUP	Storm 1	01/17/05	**1435**	BE	62%	66%	71%	65%	62%
2318-128	T1107	LMK 136	Storm 2	01/22/05	**1031**	BE	60%	63%	73%	71%	68%
2318-129	T1111	LMK 122	Storm 2	01/22/05	**2891**	BE	64%	65%	79%	82%	77%
2318-130	T1112	LMK 038	Storm 2	01/22/05	**1778**	BE	58%	61%	70%	67%	68%
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	**870**	BE	64%	65%	71%	74%	73%
LABORATORY REPORTING LIMIT (RL)					**40**						

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PAH Results

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine	phenanthrene
						Surrogate:	*d8 naphthalene*	*d8 naphthalene*	*d10 acenaphthene*	*d10 acenaphthene*	*d10 acenaphthene*	*d10 phenanthrene*
2318-232	T1200	BL	Storm 1	03/01/05	03/04/05	3/18/2005	**14.8 J**	5.68 U	7.26 U	6.85 U	6.05 U	9.32 U
2318-233	T1201	OC	Storm 1	03/01/05	03/04/05	3/18/2005	4.97 U	5.95 U	7.61 U	7.18 U	6.34 U	**13.3 J**
2318-234	T1202	B-ST28	Storm 1	03/01/05	03/04/05	3/18/2005	**25.7**	**68.3 E**	**14.1 J**	10.5 U	**30.0**	**144**
2318-235	T1203	B-ST/CSO16	Storm 1	03/01/05	03/04/05	3/18/2005	**18.0 J**	**7.12 J**	**8.08 J**	**8.85 J**	**15.7 J**	**144**
2318-236	T1204	PSNS015	Storm 1	03/01/05	03/04/05	3/18/2005	**19.6 J**	**15.6 J**	6.52 U	6.15 U	**9.89 J**	**38.5**
2318-237	T1205	PSNS124	Storm 1	03/01/05	03/04/05	3/18/2005	**20.3**	8.70 U	11.1 U	10.5 U	9.26 U	**28.2**
2318-309	T1209	B-ST28	Storm 2	03/20/05	03/23/05	4/30/2005	**15.4 J**	**8.92 J**	8.53 U	8.04 U	7.10 U	**44.8**
2318-310	T1210	B-ST/CSO16	Storm 2	03/20/05	03/23/05	4/30/2005	**53.5**	**35.8 E**	**14.9 J**	**18.3 J**	**32.2**	**384**
2318-311	T1211	PSNS015	Storm 2	03/20/05	03/23/05	4/30/2005	**48.0**	**13.2 J**	7.75 U	7.31 U	**9.45 J**	**54.2**
2318-312	T1212	PSNS124	Storm 2	03/20/05	03/23/05	4/30/2005	**32.4**	11.1 U	14.2 U	13.4 U	11.8 U	**72.0**
2318-320	T1221	B-ST12	Storm 2	03/20/05	03/23/05	4/30/2005	**44.2**	**19.2 J**	7.99 U	7.54 U	**7.47 J**	**156**
LABORATORY REPORTING LIMIT (RL)							**20**	**20**	**20**	**20**	**20**	**20**

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SINCLAIR AND DYES INLET 2005 STORMWATER
Sinclair Inlet Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Event	Collection Date	anthracene *d10 phenanthrene*	fluoranthene *d12 chrysene*	pyrene *d12 chrysene*	benz[a]anthracene *d12 chrysene*	chrysene *d12 chrysene*	benzo[b]fluoranthene *d12 perylene*
2318-232	T1200	BL	Storm 1	03/01/05	6.57 U	10.1 U	10.6 U	9.09 U	10.0 U	8.68 U
2318-233	T1201	OC	Storm 1	03/01/05	**14.9 J**	**28.5**	**28.3**	**10.6 J**	**18.5 J**	**18.2 J**
2318-234	T1202	B-ST28	Storm 1	03/01/05	**15.9 J**	**240**	**284**	**50.7**	**138**	**119**
2318-235	T1203	B-ST/CSO16	Storm 1	03/01/05	**13.5 J**	**381**	**312**	**78.1**	**169**	**169**
2318-236	T1204	PSNS015	Storm 1	03/01/05	**42.5**	**43.9**	**47.0**	**11.2 J**	**20.6**	**19.5 J**
2318-237	T1205	PSNS124	Storm 1	03/01/05	10.1 U	**43.3**	**29.5**	13.9 U	15.3 U	13.3 U
2318-309	T1209	B-ST28	Storm 2	03/20/05	7.71 U	**164**	**160**	**43.2**	**89.6**	**109**
2318-310	T1210	B-ST/CSO16	Storm 2	03/20/05	**44.4**	**735**	**576**	**200**	**303**	**370**
2318-311	T1211	PSNS015	Storm 2	03/20/05	7.01 U	**68.4**	**70.7**	**19.2 J**	**40.9**	**36.2**
2318-312	T1212	PSNS124	Storm 2	03/20/05	12.8 U	**79.0**	**99.3**	**18.4 J**	**32.7**	**24.7**
2318-320	T1221	B-ST12	Storm 2	03/20/05	**12.2 J**	**471**	**329**	**117**	**211**	**281**
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**20**	**20**	**20**	**20**

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SINCLAIR AND DYES INLET 2005 STORMWATER
Sinclair Inlet Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Event	Collection Date	benzo[k]fluoranthene *d12 perylene*	benzo[a]pyrene *d12 perylene*	indeno[1,2,3-c,d]pyrene *d12 perylene*	dibenz[a,h]anthracene *d12 perylene*	benzo[g,h,i]perylene *d12 perylene*
2318-232	T1200	BL	Storm 1	03/01/05	8.24 U	9.78 U	8.11 U	7.63 U	8.15 U
2318-233	T1201	OC	Storm 1	03/01/05	8.63 U	10.2 U	**12.8 J**	**12.8 J**	**14.9 J**
2318-234	T1202	B-ST28	Storm 1	03/01/05	**36.7**	**44.6 B**	**67.5**	**429**	**136**
2318-235	T1203	B-ST/CSO16	Storm 1	03/01/05	**55.4**	**85.8 B**	**101**	**24.5**	**129**
2318-236	T1204	PSNS015	Storm 1	03/01/05	**7.52 J**	**11.3 JB**	**9.92 J**	**16.0 J**	**16.0 J**
2318-237	T1205	PSNS124	Storm 1	03/01/05	12.6 U	15.0 U	12.4 U	11.7 U	12.5 U
2318-309	T1209	B-ST28	Storm 2	03/20/05	**33.8**	**52.0 B**	**66.9**	**25.6**	**89.2**
2318-310	T1210	B-ST/CSO16	Storm 2	03/20/05	**125**	**216 B**	**221**	**42.3**	**231**
2318-311	T1211	PSNS015	Storm 2	03/20/05	**9.62 J**	**20.0 B**	**21.1**	8.14 U	**33.0**
2318-312	T1212	PSNS124	Storm 2	03/20/05	16.1 U	**90.0 B**	15.9 U	14.9 U	15.9 U
2318-320	T1221	B-ST12	Storm 2	03/20/05	**97.7**	**145 B**	**153**	**28.1**	**135**
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**20**	**20**	**20**

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SINCLAIR AND DYES INLET 2005 STORMWATER

Sinclair Inlet Stormwater

PAH/Phthalate Results for Water Samples

Reported in ng/L

					Phthalate Results			**Surrogate Recoveries**				
					di-N-butyl phthalate	**butylbenzyl phthalate**	**bis (2-ethylhexyl) phthalate**	**d8 naphthalene**	**d10 acenaphthene**	**d10 phenanthrene**	**d12 chrysene**	**d12 perylene**
								(%)	*(%)*	*(%)*	*(%)*	*(%)*
MSL Sample ID	**Client ID**	**Site Description**	**Event**	**Collection Date**	*d10 phenanthrene*	*d12 chrysene*	*d12 perylene*					
2318-232	T1200	BL	Storm 1	03/01/05	**721** BE	**443** BE	**1136** BE	83%	87%	97%	94%	92%
2318-233	T1201	OC	Storm 1	03/01/05	**476** BE	**425** BE	**1405** BE	49%	69%	80%	76%	76%
2318-234	T1202	B-ST28	Storm 1	03/01/05	**1037** BE	**2103** BE	**5785** E	50%	76%	82%	68%	81%
2318-235	T1203	B-ST/CSO16	Storm 1	03/01/05	**432** BE	**1022** BE	**5805** E	49%	72%	77%	65%	73%
2318-236	T1204	PSNS015	Storm 1	03/01/05	**390** BE	**602** BE	**1937** BE	65%	69%	71%	49%	69%
2318-237	T1205	PSNS124	Storm 1	03/01/05	**511** BE	**2016** BE	**3088** BE	69%	75%	84%	63%	82%
2318-309	T1209	B-ST28	Storm 2	03/20/05	**634** BE	**697** BE	**6230** BE	46%	40%	51%	57%	67%
2318-310	T1210	B-ST/CSO16	Storm 2	03/20/05	**3307** BE	**1167** BE	**12041** BE	78%	88%	103%	96%	105%
2318-311	T1211	PSNS015	Storm 2	03/20/05	**1560** BE	**997** BE	**6507** BE	81%	85%	107%	97%	98%
2318-312	T1212	PSNS124	Storm 2	03/20/05	**2241** BE	**1932** E	**5787** BE	73%	75%	99%	95%	88%
2318-320	T1221	B-ST12	Storm 2	03/20/05	**770** BE	**313** BE	**2808** BE	94%	96%	102%	88%	89%
LABORATORY REPORTING LIMIT (RL)					**40**	**40**	**40**					

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SINCLAIR AND DYES INLET 2005 STORMWATER
Dyes Inlet and Springbrook Creek Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

PAH Results

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Surrogate:	naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine
							d8 naphthalene		*d8 naphthalene*	*d10 acenaphthene*	*d10 acenaphthene*	*d10 acenaphthene*
2318-374	T1305	SW6	Storm 1	03/27/05	3/29/2005	4/30/2005		**20.5**	**7.77 J**	7.35 U	6.93 U	6.12 U
2318-376	T1306	B-ST12	Storm 1	03/27/05	3/29/2005	5/1/2005		**9.72 J**	4.95 U	6.33 U	5.97 U	5.27 U
2318-380	T1301	BA	Storm 1	03/27/05	3/29/2005	5/1/2005		**11.3 J**	5.29 U	6.76 U	6.38 U	5.63 U
2318-382 R-1	T1302	CC	Storm 1	03/27/05	3/29/2005	5/1/2005		**14.7 J**	7.14 U	9.13 U	8.61 U	7.60 U
2318-386	T1304	CH	Storm 1	03/27/05	3/29/2005	5/1/2005		**12.6 J**	9.01 U	11.5 U	10.9 U	9.59 U
2318-389	T1307	B-ST01	Storm 1	03/27/05	3/29/2005	5/1/2005		**18.2 J**	**33.8**	8.76 U	8.26 U	**13.0 J**
2318-445	T1313	SW6	Storm 2	04/01/05	4/5/2005	5/1/2005		**12.5 J**	8.10 U	10.4 U	9.77 U	8.62 U
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	4/5/2005	5/1/2005		6.30 U	7.55 U	9.65 U	9.10 U	8.04 U
2318-450	T1311	SC	Storm 2	04/01/05	4/5/2005	5/1/2005		**9.80 J**	5.95 U	7.61 U	7.18 U	6.34 U
2318-452	T1315	B-ST01	Storm 2	04/01/05	4/5/2005	5/1/2005		**8.53 J**	6.62 U	8.46 U	7.98 U	7.05 U
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	4/13/2005	5/1/2005		**11.6 J**	5.56 U	7.11 U	6.70 U	5.92 U
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	4/5/2005	5/1/2005		**7.72 J**	7.41 U	9.47 U	8.94 U	7.89 U
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	4/5/2005	5/1/2005		**11.8 J**	10.0 U	12.8 U	12.1 U	10.6 U
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	4/5/2005	5/1/2005		6.42 U	7.69 U	9.83 U	9.27 U	8.19 U
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	4/5/2005	5/1/2005		**17.0 J**	4.29 U	5.48 U	5.17 U	4.57 U
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	4/5/2005	5/1/2005		5.52 U	6.62 U	8.46 U	7.98 U	7.05 U
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	4/5/2005	5/1/2005		6.05 U	7.25 U	9.27 U	8.74 U	7.72 U
LABORATORY REPORTING LIMIT (RL)								**20**	**20**	**20**	**20**	**20**

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SINCLAIR AND DYES INLET 2005 STORMWATER
Dyes Inlet and Springbrook Creek Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Event	Collection Date	phenanthrene	anthracene	fluoranthene	pyrene	benz[a]anthracene	chrysene
					d10 phenanthrene	*d10 phenanthrene*	*d12 chrysene*	*d12 chrysene*	*d12 chrysene*	*d12 chrysene*
2318-374	T1305	SW6	Storm 1	03/27/05	**112**	**12.2 J**	**307**	**233**	**64.6**	**146**
2318-376	T1306	B-ST12	Storm 1	03/27/05	**132**	**11.9 J**	**417**	**303**	**115**	**196**
2318-380	T1301	BA	Storm 1	03/27/05	8.68 U	6.12 U	9.45 U	9.87 U	8.47 U	9.32 U
2318-382 R-1	T1302	CC	Storm 1	03/27/05	11.7 U	8.26 U	**13.2 J**	**14.6 J**	11.4 U	12.6 U
2318-386	T1304	CH	Storm 1	03/27/05	14.8 U	10.4 U	16.1 U	**29.3**	14.4 U	15.9 U
2318-389	T1307	B-ST01	Storm 1	03/27/05	**44.5**	7.92 U	**49.3**	**49.1**	**12.5 J**	**26.6**
2318-445	T1313	SW6	Storm 2	04/01/05	13.3 U	9.37 U	14.5 U	15.1 U	13.0 U	14.3 U
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	**59.7**	8.73 U	**206**	**148**	**47.0**	**97.2**
2318-450	T1311	SC	Storm 2	04/01/05	9.77 U	6.88 U	10.6 U	11.1 U	9.52 U	10.5 U
2318-452	T1315	B-ST01	Storm 2	04/01/05	**34.0**	7.65 U	**58.4**	**85.9**	**13.7 J**	**33.7**
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	9.13 U	6.43 U	9.93 U	10.4 U	8.90 U	9.80 U
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	12.2 U	8.57 U	13.2 U	13.8 U	11.9 U	13.1 U
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	12.6 U	8.89 U	13.7 U	14.3 U	12.3 U	13.6 U
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	**7.63 J**	4.96 U	7.66 U	8.00 U	6.86 U	7.56 U
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	10.9 U	7.65 U	**19.6 J**	**21.3**	**11.6 J**	**13.7 J**
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	11.9 U	8.38 U	12.9 U	13.5 U	11.6 U	12.8 U
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**20**	**20**	**20**	**20**

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SINCLAIR AND DYES INLET 2005 STORMWATER
Dyes Inlet and Springbrook Creek Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Event	Collection Date	benzo[b]fluoranthene	benzo[k]fluoranthene	benzo[a]pyrene	indeno[1,2,3-c,d]pyrene	dibenz[a,h]anthracene
					d12 perylene	*d12 perylene*	*d12 perylene*	*d12 perylene*	*d12 perylene*
2318-374	T1305	SW6	Storm 1	03/27/05	**180**	**60.8**	**86.2**	**98.0**	**17.3 J**
2318-376	T1306	B-ST12	Storm 1	03/27/05	**271**	**93.2**	**141**	**149**	**27.2**
2318-380	T1301	BA	Storm 1	03/27/05	8.09 U	7.68 U	9.11 U	7.56 U	7.10 U
2318-382 R-1	T1302	CC	Storm 1	03/27/05	10.9 U	10.4 U	12.3 U	10.2 U	9.59 U
2318-386	T1304	CH	Storm 1	03/27/05	13.8 U	13.1 U	**26.1**	12.9 U	12.1 U
2318-389	T1307	B-ST01	Storm 1	03/27/05	**29.4**	9.94 U	**12.6 J**	**16.8 J**	9.20 U
2318-445	T1313	SW6	Storm 2	04/01/05	12.4 U	11.8 U	13.9 U	11.6 U	10.9 U
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	**127**	**43.2**	**59.9**	**67.2**	**11.2 J**
2318-450	T1311	SC	Storm 2	04/01/05	9.09 U	8.63 U	10.2 U	8.50 U	7.99 U
2318-452	T1315	B-ST01	Storm 2	04/01/05	**25.9**	9.61 U	**130**	**14.1 J**	8.89 U
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	8.50 U	8.07 U	9.57 U	7.94 U	7.47 U
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	11.3 U	10.8 U	12.8 U	10.6 U	9.95 U
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	15.3 U	14.5 U	17.2 U	14.3 U	13.4 U
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	11.8 U	11.2 U	13.2 U	11.0 U	10.3 U
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	6.56 U	6.23 U	7.39 U	6.13 U	5.76 U
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	**14.9 J**	9.61 U	11.4 U	9.46 U	**34.9**
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	11.1 U	10.5 U	12.5 U	10.4 U	9.74 U
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**20**	**20**	**20**

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SINCLAIR AND DYES INLET 2005 STORMWATER
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PAH/Phthalate Results for Water Samples
Reported in ng/L

					Phthalate Results			
					benzo[g,h,i]perylene	**di-N-butyl phthalate**	**butylbenzyl phthalate**	**bis(2-ethylhexyl) phthalate**
MSL Sample ID	**Client ID**	**Site Description**	**Event**	**Collection Date**	*d12 perylene*	*d10 phenanthrene*	*d12 chrysene*	*d12 perylene*
2318-374	T1305	SW6	Storm 1	03/27/05	**96.0**	**1293** EB	**365** EB	**3732** EB
2318-376	T1306	B-ST12	Storm 1	03/27/05	**135**	**752** EB	**242** EB	**2340** EB
2318-380	T1301	BA	Storm 1	03/27/05	7.59 U	**539** EB	**89.4** EB	**340** EB
2318-382 R-1	T1302	CC	Storm 1	03/27/05	10.2 U	**3602** EB	**278** EB	**1408** EB
2318-386	T1304	CH	Storm 1	03/27/05	12.9 U	**981** EB	**162** EB	**681** EB
2318-389	T1307	B-ST01	Storm 1	03/27/05	**20.9**	**610** EB	**322** EB	**2033** EB
2318-445	T1313	SW6	Storm 2	04/01/05	11.6 U	**992** EB	**165** EB	**544** EB
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	**62.2**	**840** EB	**189** EB	**2542** EB
2318-450	T1311	SC	Storm 2	04/01/05	8.54 U	**371** EB	**96.0** EB	**751** EB
2318-452	T1315	B-ST01	Storm 2	04/01/05	**20.2**	**754** EB	**465** EB	**5029** E
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	7.98 U	**289** EB	**81.4** EB	**389** EB
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	10.6 U	**417** EB	**133** EB	**303** EB
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	14.4 U	**674** EB	**152** EB	**474** EB
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	11.0 U	**1099** EB	**220** EB	**1387** EB
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	6.16 U	**144** EB	**60.7** EB	**119** EB
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	9.50 U	**410** EB	**97.5** EB	**530** EB
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	10.4 U	**244** EB	**104** EB	**235** EB
LABORATORY REPORTING LIMIT (RL)					**20**	**40**	**40**	**40**

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SINCLAIR AND DYES INLET 2005 STORMWATER
Dyes Inlet and Springbrook Creek Stormwater
PAH/Phthalate Results for Water Samples

Surrogate Recoveries

MSL Sample ID	Client ID	Site Description	Event	Collection Date	d8 naphthalene (%)	d10 acenaphthene (%)	d10 phenanthrene (%)	d12 chrysene (%)	d12 perylene (%)
2318-374	T1305	SW6	Storm 1	03/27/05	93%	96%	104%	96%	99%
2318-376	T1306	B-ST12	Storm 1	03/27/05	64%	76%	100%	96%	102%
2318-380	T1301	BA	Storm 1	03/27/05	80%	83%	95%	90%	94%
2318-382 R-1	T1302	CC	Storm 1	03/27/05	83%	91%	111%	106%	110%
2318-386	T1304	CH	Storm 1	03/27/05	72%	78%	90%	89%	91%
2318-389	T1307	B-ST01	Storm 1	03/27/05	63%	72%	90%	85%	81%
2318-445	T1313	SW6	Storm 2	04/01/05	77%	85%	105%	103%	107%
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	73%	86%	102%	99%	106%
2318-450	T1311	SC	Storm 2	04/01/05	67%	79%	92%	87%	91%
2318-452	T1315	B-ST01	Storm 2	04/01/05	60%	71%	119%	74%	59%
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	65%	73%	79%	74%	78%
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	64%	73%	94%	94%	95%
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	60%	64%	91%	100%	101%
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	88%	85%	109%	104%	100%
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	89%	87%	107%	86%	81%
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	90%	93%	112%	87%	85%
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	81%	84%	118%	113%	109%

LABORATORY REPORTING LIMIT (RL)

Field Data Summary: 2005 Storm Water Organic Contaminants - PCBs

- Gorst
- Sinclair Inlet
- Dyes Inlet, Wet Season Baseflow

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SINCLAIR AND DYES INLET 2005 STORMWATER
Gorst Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Aroclor 1268 (ng/L)	PCB008 (ng/L)	PCB018 (ng/L)	PCB028 (ng/L)	PCB052 (ng/L)	PCB044 (ng/L)	PCB066 (ng/L)	PCB101 (ng/L)
2318-60	T1100	LMK136	Storm 1	01/17/05	1/20/2005	2/18/2005	22.0 U	0.777 U	0.507 U	0.216 U	0.892 U	0.372 U	0.284 U	0.128 U
2318-62	T1102	GC-SAN	Storm 1	01/17/05	1/20/2005	2/18/2005	18.6 U	0.657 U	0.429 U	0.183 U	0.754 U	0.314 U	0.240 U	0.109 U
2318-63	T1103	AC	Storm 1	01/17/05	1/20/2005	2/18/2005	21.0 U	0.742 U	0.484 U	0.206 U	0.852 U	0.355 U	0.271 U	0.123 U
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	1/21/2005	2/18/2005	18.6 U	**7.31**	0.429 U	0.183 U	0.754 U	0.314 U	0.240 U	0.109 U
2318-65	T1105	LMK038	Storm 1	01/17/05	1/21/2005	2/18/2005	18.9 U	0.667 U	0.435 U	0.186 U	0.765 U	0.319 U	0.243 U	0.110 U
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	1/21/2005	2/18/2005	17.3 U	0.612 U	0.399 U	0.170 U	0.702 U	0.293 U	0.223 U	0.101 U
2318-71	T1114	AC-DUP	Storm 1	01/17/05	1/21/2005	2/19/2005	18.6 U	0.657 U	0.429 U	0.183 U	0.754 U	0.314 U	0.240 U	0.109 U
2318-128	T1107	LMK 136	Storm 2	01/22/05	1/26/2005	2/19/2005	17.6 U	0.620 U	0.404 U	0.173 U	0.712 U	0.296 U	0.226 U	0.102 U
2318-129	T1111	LMK 122	Storm 2	01/22/05	1/26/2005	2/19/2005	17.9 U	0.632 U	0.412 U	0.176 U	0.725 U	0.302 U	0.231 U	0.104 U
2318-130	T1112	LMK 038	Storm 2	01/22/05	1/26/2005	2/19/2005	18.3 U	0.646 U	0.421 U	0.180 U	0.742 U	0.309 U	0.236 U	0.107 U
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	1/26/2005	2/19/2005	16.9 U	0.596 U	0.389 U	0.166 U	0.684 U	0.285 U	0.218 U	0.098 U
LABORATORY REPORTING LIMIT (RL)							**40**	**2**	**2**	**2**	**2**	**2**	**2**	**2**

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SINCLAIR AND DYES INLET 2005 STORMWATER
Gorst Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	PCB077 (ng/L)	PCB118 (ng/L)	PCB153 (ng/L)	PCB105 (ng/L)	PCB138 (ng/L)	PCB126 (ng/L)	PCB187 (ng/L)	PCB128 (ng/L)	PCB200 (ng/L)	PCB180 (ng/L)
2318-60	T1100	LMK136	Storm 1	01/17/05	0.149 U	0.155 U	0.115 U	0.115 U	0.122 U	0.250 U	0.243 U	0.196 U	0.270 U	0.216 U
2318-62	T1102	GC-SAN	Storm 1	01/17/05	0.126 U	0.131 U	0.097 U	0.097 U	0.103 U	0.211 U	**0.394 J**	0.166 U	0.229 U	0.183 U
2318-63	T1103	AC	Storm 1	01/17/05	0.142 U	0.148 U	0.110 U	0.110 U	0.116 U	0.239 U	0.232 U	0.187 U	0.258 U	0.206 U
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	0.126 U	0.131 U	0.097 U	0.097 U	**1.89 J**	0.211 U	0.206 U	0.166 U	0.229 U	0.183 U
2318-65	T1105	LMK038	Storm 1	01/17/05	0.128 U	0.133 U	0.099 U	0.099 U	0.104 U	0.214 U	0.209 U	0.168 U	0.232 U	0.186 U
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	0.117 U	0.122 U	0.090 U	0.090 U	0.096 U	0.197 U	0.191 U	0.154 U	0.213 U	0.170 U
2318-71	T1114	AC-DUP	Storm 1	01/17/05	**0.651 J**	0.131 U	0.097 U	0.097 U	0.103 U	0.211 U	0.206 U	0.166 U	**0.512 J**	0.183 U
2318-128	T1107	LMK 136	Storm 2	01/22/05	0.119 U	0.124 U	0.092 U	0.092 U	0.097 U	0.199 U	0.194 U	0.156 U	0.216 U	0.173 U
2318-129	T1111	LMK 122	Storm 2	01/22/05	0.121 U	0.126 U	0.093 U	**1.38 J**	0.099 U	0.203 U	0.198 U	0.159 U	0.220 U	0.176 U
2318-130	T1112	LMK 038	Storm 2	01/22/05	0.124 U	0.129 U	0.096 U	0.096 U	0.101 U	0.208 U	0.202 U	0.163 U	0.225 U	0.180 U
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	0.114 U	0.119 U	0.088 U	0.088 U	0.093 U	0.192 U	0.187 U	0.150 U	0.207 U	0.166 U
LABORATORY REPORTING LIMIT (RL)					**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**

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SINCLAIR AND DYES INLET 2005 STORMWATER
Gorst Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	PCB170 (ng/L)	PCB195 (ng/L)	Surrogate Recoveries PCB103 % Recovery	Surrogate Recoveries PCB198 % Recovery
2318-60	T1100	LMK136	Storm 1	01/17/05	0.236 U	0.757 U	86%	153% #
2318-62	T1102	GC-SAN	Storm 1	01/17/05	0.200 U	0.640 U	84%	140% #
2318-63	T1103	AC	Storm 1	01/17/05	0.226 U	0.723 U	80%	129% #
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	0.200 U	0.640 U	72%	116%
2318-65	T1105	LMK038	Storm 1	01/17/05	0.203 U	0.649 U	83%	109%
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	0.186 U	0.596 U	67%	119%
2318-71	T1114	AC-DUP	Storm 1	01/17/05	0.200 U	0.640 U	70%	88%
2318-128	T1107	LMK 136	Storm 2	01/22/05	0.189 U	0.604 U	58%	82%
2318-129	T1111	LMK 122	Storm 2	01/22/05	0.192 U	0.615 U	87%	99%
2318-130	T1112	LMK 038	Storm 2	01/22/05	0.197 U	0.629 U	64%	63%
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	0.181 U	0.580 U	61%	80%
LABORATORY REPORTING LIMIT (RL)					**2**	**2**		

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SINCLAIR AND DYES INLET 2005 STORMWATER
Sinclair Inlet Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Aroclor 1268 (ng/L)	PCB008 (ng/L)	PCB018 (ng/L)	PCB028 (ng/L)	PCB052 (ng/L)	PCB044 (ng/L)	PCB066 (ng/L)	PCB101 (ng/L)
2318-232	T1200	BL	Storm 1	03/01/05	03/04/05	03/24/05	18.5 U	0.653 U	0.426 U	0.182 U	0.750 U	0.313 U	0.239 U	0.108 U
2318-233	T1201	OC	Storm 1	03/01/05	03/04/05	03/24/05	19.4 U	0.685 U	0.446 U	0.190 U	0.786 U	0.327 U	0.250 U	0.113 U
2318-234	T1202	B-ST28	Storm 1	03/01/05	03/04/05	03/24/05	28.3 U	1.00 U	0.652 U	0.278 U	1.15 U	0.478 U	0.365 U	0.165 U
2318-235	T1203	B-ST/CSO16	Storm 1	03/01/05	03/04/05	03/24/05	20.2 U	**5.75**	0.466 U	0.199 U	0.820 U	0.342 U	0.261 U	0.118 U
2318-236	T1204	PSNS015	Storm 1	03/01/05	03/04/05	03/24/05	16.6 U	0.587 U	**5.39** B	0.163 U	0.673 U	0.281 U	0.214 U	**1.09** J
2318-237	T1205	PSNS124	Storm 1	03/01/05	03/04/05	03/24/05	28.3 U	1.00 U	0.652 U	0.278 U	1.15 U	0.478 U	0.365 U	0.165 U
2318-309	T1209	B-ST28	Storm 2	03/20/05	03/23/05	5/1/2005	21.7 U	**3.40** B	0.50 U	0.21 U	0.88 U	0.37 U	0.28 U	0.13 U
2318-310	T1210	B-ST/CSO16	Storm 2	03/20/05	03/23/05	5/1/2005	27.6 U	0.97 U	0.64 U	0.27 U	1.12 U	0.47 U	0.36 U	0.16 U
2318-311	T1211	PSNS015	Storm 2	03/20/05	03/23/05	5/2/2005	19.8 U	0.70 U	0.45 U	0.19 U	0.80 U	0.33 U	0.25 U	0.12 U
2318-312	T1212	PSNS124	Storm 2	03/20/05	03/23/05	5/2/2005	36.2 U	1.28 U	0.83 U	0.36 U	1.47 U	0.61 U	0.47 U	**20.5**
2318-320	T1221	B-ST12	Storm 2	03/20/05	03/23/05	5/2/2005	20.4 U	0.72 U	0.47 U	0.20 U	0.83 U	0.34 U	0.26 U	0.12 U
LABORATORY REPORTING LIMIT (RL)							**40**	**2**	**2**	**2**	**2**	**2**	**2**	**2**

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SINCLAIR AND DYES INLET 2005 STORMWATER **S**
Sinclair Inlet Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	PCB077 (ng/L)	PCB118 (ng/L)	PCB153 (ng/L)	PCB105 (ng/L)	PCB138 (ng/L)	PCB126 (ng/L)	PCB187 (ng/L)	PCB128 (ng/L)	PCB200 (ng/L)	PCB180 (ng/L)
2318-232	T1200	BL	Storm 1	03/01/05	0.125 U	0.131 U	0.097 U	0.097 U	**0.165** J	0.210 U	0.205 U	0.165 U	0.227 U	0.182 U
2318-233	T1201	OC	Storm 1	03/01/05	0.131 U	0.137 U	0.101 U	0.101 U	0.107 U	0.220 U	0.214 U	0.173 U	0.238 U	0.190 U
2318-234	T1202	B-ST28	Storm 1	03/01/05	0.191 U	0.200 U	0.148 U	0.148 U	0.157 U	0.322 U	0.313 U	0.252 U	0.348 U	0.278 U
2318-235	T1203	B-ST/CSO16	Storm 1	03/01/05	0.137 U	**1.80** J	0.106 U	0.106 U	0.112 U	0.230 U	0.224 U	**0.499** J	0.248 U	0.199 U
2318-236	T1204	PSNS015	Storm 1	03/01/05	0.112 U	0.117 U	0.087 U	**0.936** J	0.092 U	0.189 U	0.184 U	0.148 U	0.204 U	0.163 U
2318-237	T1205	PSNS124	Storm 1	03/01/05	0.191 U	0.200 U	0.148 U	0.148 U	0.157 U	0.322 U	0.313 U	0.252 U	0.348 U	0.278 U
2318-309	T1209	B-ST28	Storm 2	03/20/05	0.15 U	0.15 U	0.11 U	0.11 U	**1.74** J	0.25 U	0.24 U	0.19 U	0.27 U	0.21 U
2318-310	T1210	B-ST/CSO16	Storm 2	03/20/05	0.19 U	**4.30**	**9.30**	**7.46**	**11.1**	0.31 U	0.31 U	**1.36** J	**0.96** J	0.27 U
2318-311	T1211	PSNS015	Storm 2	03/20/05	0.13 U	0.14 U	0.10 U	0.10 U	0.11 U	0.22 U	0.22 U	0.18 U	0.24 U	0.19 U
2318-312	T1212	PSNS124	Storm 2	03/20/05	0.24 U	**11.2**	**35.8**	**6.98**	**45.4**	0.41 U	**17.2**	**2.35**	**6.69**	0.36 U
2318-320	T1221	B-ST12	Storm 2	03/20/05	0.14 U	0.14 U	0.11 U	0.11 U	0.11 U	0.23 U	0.23 U	0.18 U	0.25 U	0.20 U
LABORATORY REPORTING LIMIT (RL)					**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**

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SINCLAIR AND DYES INLET 2005 STORMWATER
Sinclair Inlet Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Surrogate Recoveries PCB170 (ng/L)	PCB195 (ng/L)	PCB103 % Recovery	PCB198 % Recovery
2318-232	T1200	BL	Storm 1	03/01/05	0.199 U	0.636 U	97%	106%
2318-233	T1201	OC	Storm 1	03/01/05	0.208 U	0.667 U	61%	92%
2318-234	T1202	B-ST28	Storm 1	03/01/05	0.304 U	**1.13** J	73%	93%
2318-235	T1203	B-ST/CSO16	Storm 1	03/01/05	0.217 U	**1.86** J	62%	79%
2318-236	T1204	PSNS015	Storm 1	03/01/05	0.179 U	0.571 U	67%	90%
2318-237	T1205	PSNS124	Storm 1	03/01/05	0.304 U	0.974 U	79%	109%
2318-309	T1209	B-ST28	Storm 2	03/20/05	0.23 U	0.75 U	66%	61%
2318-310	T1210	B-ST/CSO16	Storm 2	03/20/05	0.30 U	0.95 U	98%	110%
2318-311	T1211	PSNS015	Storm 2	03/20/05	0.21 U	0.68 U	101%	91%
2318-312	T1212	PSNS124	Storm 2	03/20/05	**16.4**	**4.63**	100%	101%
2318-320	T1221	B-ST12	Storm 2	03/20/05	0.22 U	0.70 U	78%	91%
LABORATORY REPORTING LIMIT (RL)					**2**	**2**		

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SINCLAIR AND DYES INLET 2005 STORMWATER
Dyes Inlet and Springbrook Creek Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Aroclor 1268 (ng/L)	PCB008 (ng/L)	PCB018 (ng/L)	PCB028 (ng/L)	PCB052 (ng/L)	PCB044 (ng/L)	PCB066 (ng/L)
2318-374	T1305	SW6	Storm 1	03/27/05	3/29/2005	5/2/2005	18.7 U	0.66 U	**4.85**	0.18 U	0.76 U	**10.1**	0.24 U
2318-376	T1306	B-ST12	Storm 1	03/27/05	3/29/2005	5/2/2005	16.1 U	0.57 U	0.37 U	0.16 U	0.65 U	0.27 U	0.21 U
2318-380	T1301	BA	Storm 1	03/27/05	3/29/2005	5/2/2005	17.2 U	0.61 U	0.40 U	0.17 U	0.70 U	0.29 U	0.22 U
2318-382 R-1	T1302	CC	Storm 1	03/27/05	3/29/2005	5/2/2005	23.3 U	0.82 U	0.54 U	0.23 U	0.94 U	0.39 U	0.30 U
2318-386	T1304	CH	Storm 1	03/27/05	3/29/2005	5/2/2005	29.4 U	1.04 U	0.68 U	0.29 U	1.19 U	0.50 U	0.38 U
2318-389	T1307	B-ST01	Storm 1	03/27/05	3/29/2005	5/3/2005	22.3 U	0.79 U	0.51 U	0.22 U	0.90 U	0.38 U	0.29 U
2318-445	T1313	SW6	Storm 2	04/01/05	4/5/2005	5/3/2005	26.4 U	0.93 U	0.61 U	0.26 U	1.07 U	0.45 U	0.34 U
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	4/5/2005	5/3/2005	24.6 U	0.87 U	0.57 U	0.24 U	1.00 U	0.42 U	0.32 U
2318-450	T1311	SC	Storm 2	04/01/05	4/5/2005	5/3/2005	19.4 U	0.68 U	0.45 U	0.19 U	0.79 U	0.33 U	0.25 U
2318-452	T1315	B-ST01	Storm 2	04/01/05	4/5/2005	5/3/2005	21.6 U	0.76 U	0.50 U	0.21 U	0.87 U	0.36 U	0.28 U
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	4/13/2005	5/3/2005	18.1 U	0.64 U	0.42 U	0.18 U	0.73 U	0.31 U	0.23 U
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	4/5/2005	5/3/2005	24.1 U	0.85 U	0.56 U	0.24 U	0.98 U	0.41 U	0.31 U
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	4/5/2005	5/3/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	4/5/2005	5/4/2005	25.1 U	0.88 U	0.58 U	0.25 U	1.02 U	0.42 U	0.32 U
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	4/5/2005	5/4/2005	14.0 U	0.49 U	0.32 U	0.14 U	0.57 U	0.24 U	0.18 U
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	4/5/2005	5/4/2005	21.6 U	0.76 U	0.50 U	0.21 U	0.87 U	0.36 U	0.28 U
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	4/5/2005	5/4/2005	23.6 U	0.83 U	0.54 U	0.23 U	0.96 U	0.40 U	0.30 U
LABORATORY REPORTING LIMIT (RL)							**40**	**2**	**2**	**2**	**2**	**2**	**2**

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SINCLAIR AND DYES INLET 2005 STORMWATER
Dyes Inlet and Springbrook Creek Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	PCB101 (ng/L)	PCB077 (ng/L)	PCB118 (ng/L)	PCB153 (ng/L)	PCB105 (ng/L)	PCB138 (ng/L)	PCB126 (ng/L)	PCB187 (ng/L)	PCB128 (ng/L)
2318-374	T1305	SW6	Storm 1	03/27/05	**3.90**	**0.55 J**	0.13 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.17 U
2318-376	T1306	B-ST12	Storm 1	03/27/05	0.09 U	0.11 U	0.11 U	0.08 U	0.08 U	0.09 U	0.18 U	0.18 U	0.14 U
2318-380	T1301	BA	Storm 1	03/27/05	0.10 U	0.12 U	0.12 U	0.09 U	0.09 U	0.10 U	0.20 U	0.19 U	0.15 U
2318-382 R-1	T1302	CC	Storm 1	03/27/05	**0.27 J**	0.16 U	0.16 U	0.12 U	0.12 U	0.13 U	0.26 U	0.26 U	0.21 U
2318-386	T1304	CH	Storm 1	03/27/05	0.17 U	0.20 U	0.21 U	0.15 U	0.15 U	0.16 U	0.33 U	**0.68 J**	0.26 U
2318-389	T1307	B-ST01	Storm 1	03/27/05	0.13 U	0.15 U	**0.70 J**	0.12 U	0.12 U	**0.52 J**	0.25 U	0.25 U	0.20 U
2318-445	T1313	SW6	Storm 2	04/01/05	**0.34 JB**	0.18 U	0.19 U	0.14 U	0.14 U	0.15 U	0.30 U	0.29 U	0.23 U
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	0.14 U	**0.42 J**	0.17 U	0.13 U	**0.81 J**	0.14 U	0.28 U	0.27 U	0.22 U
2318-450	T1311	SC	Storm 2	04/01/05	0.11 U	0.13 U	0.14 U	0.10 U	0.10 U	0.11 U	0.22 U	0.21 U	0.17 U
2318-452	T1315	B-ST01	Storm 2	04/01/05	0.13 U	0.15 U	0.15 U	0.11 U	0.11 U	0.12 U	0.25 U	**0.27 J**	0.19 U
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	0.11 U	0.12 U	0.13 U	0.09 U	0.09 U	0.10 U	0.21 U	0.20 U	0.16 U
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	0.14 U	0.16 U	0.17 U	0.13 U	0.13 U	0.13 U	0.27 U	0.27 U	0.21 U
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	0.15 U	0.17 U	0.18 U	0.13 U	0.13 U	0.14 U	**0.29 J**	**0.63 J**	0.22 U
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	0.08 U	0.09 U	0.10 U	0.07 U	0.07 U	0.08 U	0.16 U	**0.33 J**	0.12 U
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	0.13 U	0.15 U	0.15 U	0.11 U	0.11 U	0.12 U	0.25 U	**0.99 J**	0.19 U
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	0.14 U	0.16 U	0.17 U	0.12 U	0.12 U	**0.98 J**	0.27 U	0.26 U	0.21 U
LABORATORY REPORTING LIMIT (RL)					**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**

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SINCLAIR AND DYES INLET 2005 STORMWATER
Dyes Inlet and Springbrook Creek Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	PCB200 (ng/L)	PCB180 (ng/L)	PCB170 (ng/L)	PCB195 (ng/L)	Surrogate Recoveries PCB103 % Recovery	Surrogate Recoveries PCB198 % Recovery
2318-374	T1305	SW6	Storm 1	03/27/05	0.23 U	0.18 U	0.20 U	0.64 U	90%	103%
2318-376	T1306	B-ST12	Storm 1	03/27/05	0.20 U	0.16 U	0.17 U	0.55 U	91%	113%
2318-380	T1301	BA	Storm 1	03/27/05	0.21 U	0.17 U	0.19 U	0.59 U	88%	100%
2318-382 R-1	T1302	CC	Storm 1	03/27/05	0.29 U	0.23 U	0.25 U	0.80 U	95%	112%
2318-386	T1304	CH	Storm 1	03/27/05	0.36 U	0.29 U	0.32 U	1.01 U	85%	91%
2318-389	T1307	B-ST01	Storm 1	03/27/05	0.27 U	0.22 U	0.24 U	0.77 U	80%	90%
2318-445	T1313	SW6	Storm 2	04/01/05	0.32 U	0.26 U	0.28 U	0.91 U	91%	104%
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	0.30 U	0.24 U	0.26 U	0.85 U	102%	100%
2318-450	T1311	SC	Storm 2	04/01/05	0.24 U	0.19 U	0.21 U	0.67 U	98%	100%
2318-452	T1315	B-ST01	Storm 2	04/01/05	**0.33 J**	0.21 U	0.23 U	0.74 U	80%	76%
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	0.22 U	0.18 U	0.19 U	0.62 U	77%	79%
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	0.30 U	0.24 U	0.26 U	0.83 U	92%	94%
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	**1.44 J**	0.32 U	0.35 U	1.12 U	105%	104%
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	0.31 U	0.25 U	0.27 U	0.86 U	100%	99%
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	0.17 U	0.14 U	0.15 U	0.48 U	45%	67%
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	**0.53 J**	0.21 U	0.23 U	0.74 U	38% #	71%
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	0.29 U	0.23 U	0.25 U	0.81 U	53%	99%
LABORATORY REPORTING LIMIT (RL)					**2**	**2**	**2**	**2**		

QC Sample Results: 2005 Storm Water Organic Contaminants - PAHs

- Gorst
- Sinclair Inlet
- Dyes Inlet, Wet Season Baseflow

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Gorst Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

PAH Results

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Surrogate:	naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine
								d8 naphthalene	*d8 naphthalene*	*d10 acenaphthene*	*d10 acenaphthene*	*d10 acenaphthene*
LABORATORY REPORTING LIMIT (RL)								**20**	**20**	**20**	**20**	**20**
Blanks												
Method Blank (2)	23182 Blank A	--		--	1/20/2005	2/16/2005		8.35 U	15.0 U	12.8 U	12.1 U	10.6 U
Method Blank (3)	23182 Blank B	--		--	1/21/2005	2/16/2005		8.35 U	15.0 U	12.8 U	12.1 U	10.6 U
Method Blank (4)	23182 Blank C	--		--	1/26/2005	2/16/2005		8.35 U	15.0 U	12.8 U	12.1 U	10.6 U
	Mean Blank											
	10x Mean Blank											
Blank Spike Results												
Blank	23182 Blank A	--		--	1/20/2005	2/16/2005		8.35 U	15.0 U	12.8 U	12.1 U	10.6 U
Blank Spike A	23182 Blank Spike A	--		--	1/20/2005	2/16/2005		**964**	**483**	**1028**	**1048**	**1154**
	Spike Concentration							1250	1250	1250	1250	1250
	Percent Recovery A							**77%**	**39% &**	**82%**	**84%**	**92%**
Blank	23182 Blank B	--		--	1/21/2005	2/16/2005		8.35 U	15.0 U	12.8 U	12.1 U	10.6 U
Blank Spike B	23182 Blank Spike B	--		--	1/21/2005	2/16/2005		**692**	**347**	**726**	**742**	**788**
	Spike Concentration							1250	1250	1250	1250	1250
	Percent Recovery B							**55%**	**28% &**	**58%**	**59%**	**63%**
Blank	23182 Blank C	--		--	1/26/2005	2/16/2005		8.35 U	15.0 U	12.8 U	12.1 U	10.6 U
Blank Spike C	23182 Blank Spike C	--		--	1/26/2005	2/16/2005		**451**	**222**	**479**	**480**	**501**
Blank Spike D	23182 Blank Spike D	--		--	1/26/2005	2/16/2005		**356**	**168**	**378**	**389**	**465**
	Spike Concentration							625	625	625	625	625
	Percent Recovery C							**72%**	**36% &**	**77%**	**77%**	**80%**
	Percent Recovery D							**57%**	**27% &**	**61%**	**62%**	**74%**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Gorst Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

PAH Results

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Surrogate:	**naphthalene**	**2 methyl naphthalene**	**acenaphthalene**	**acenaphthene**	**fluorine**
								d8 naphthalene	*d8 naphthalene*	*d10 acenaphthene*	*d10 acenaphthene*	*d10 acenaphthene*
Matrix Spike Results												
2318-63	T1103	AC	Storm 1	01/17/05	1/20/2005	2/16/2005		**10.3 J**	9.68 U	8.24 U	7.78 U	6.87 U
2318-63 Spk A	Spike A	AC		01/17/05	1/20/2005	2/16/2005		**1121**	**543**	**1159**	**1167**	**1206**
2318-63 Spk B	Spike B	AC		01/17/05	1/20/2005	2/16/2005		**1120**	**560**	**1172**	**1209**	**1258**
	Spike Concentration							1250	1250	1250	1250	1250
	Percent Recovery MS							**89%**	**43%**	**93%**	**93%**	**96%**
	Percent Recovery MSD							**89%**	**45%**	**94%**	**97%**	**101%**
	RPD							**0%**	**3%**	**1%**	**3%**	**4%**
Laboratory Duplicate Results												
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	1/21/2005	2/16/2005		**74.8**	**50.4**	7.30 U	6.89 U	**15.8 J**
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	1/21/2005	2/16/2005		**75.1**	**49.3**	7.30 U	6.89 U	**14.7 J**
	RPD							**0%**	**2%**	**NA**	**NA**	**7%**

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MSL Sample ID	Client ID	Site Description	Event	Collection Date	phenanthrene *d10 phenanthrene*	anthracene *d10 phenanthrene*	fluoranthene *d12 chrysene*	pyrene *d12 chrysene*	benz[a]anthracene *d12 chrysene*	chrysene *d12 chrysene*
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**20**	**20**	**20**	**20**
Blanks										
Method Blank (2)	23182 Blank A	--		--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Method Blank (3)	23182 Blank B	--		--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Method Blank (4)	23182 Blank C	--		--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
	Mean Blank									
	10x Mean Blank									
Blank Spike Results										
Blank	23182 Blank A	--		--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Blank Spike A	23182 Blank Spike A	--		--	**1279**	**1257**	**1338**	**1441**	**1465**	**1321**
	Spike Concentration				1250	1250	1250	1250	1250	1250
	Percent Recovery A				**102%**	**101%**	**107%**	**115%**	**117%**	**106%**
Blank	23182 Blank B	--		--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Blank Spike B	23182 Blank Spike B	--		--	**832**	**869**	**985**	**937**	**1015**	**927**
	Spike Concentration				1250	1250	1250	1250	1250	1250
	Percent Recovery B				**67%**	**69%**	**79%**	**75%**	**81%**	**74%**
Blank	23182 Blank C	--		--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Blank Spike C	23182 Blank Spike C	--		--	**520**	**535**	**613**	**587**	**605**	**562**
Blank Spike D	23182 Blank Spike D	--		--	**522**	**537**	**611**	**583**	**633**	**567**
	Spike Concentration				625	625	625	625	625	625
	Percent Recovery C				**83%**	**86%**	**98%**	**94%**	**97%**	**90%**
	Percent Recovery D				**83%**	**86%**	**98%**	**93%**	**101%**	**91%**

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Matrix Spike Results										
2318-63	T1103	AC	Storm 1	01/17/05	10.6 U	7.46 U	11.5 U	12.0 U	10.3 U	11.4 U
2318-63 Spk A	Spike A	AC		01/17/05	**1215**	**1302**	**1427**	**1324**	**1428**	**1272**
2318-63 Spk B	Spike B	AC		01/17/05	**1276**	**1355**	**1487**	**1385**	**1514**	**1337**
	Spike Concentration				1250	1250	1250	1250	1250	1250
	Percent Recovery MS				**97%**	**104%**	**114%**	**106%**	**114%**	**102%**
	Percent Recovery MSD				**102%**	**108%**	**119%**	**111%**	**121% &**	**107%**
	RPD				**5%**	**4%**	**4%**	**5%**	**6%**	**5%**
Laboratory Duplicate Results										
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	**56.9**	**19.7 J**	**45.8**	10.6 U	**18.7 J**	**47.3**
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	**25.2**	6.60 U	**41.0**	**49.6**	**18.0 J**	**21.2**
	RPD				**77% &**	**NA**	**11%**	**NA**	**4%**	**76% &**

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MSL Sample ID	Client ID	Site Description	Event	Collection Date	benzo[b]fluoranthene	benzo[k]fluoranthene	benzo[a]pyrene	indeno[1,2,3-c,d]pyrene	dibenz[a,h]anthracene
					d12 perylene	*d12 perylene*	*d12 perylene*	*d12 perylene*	*d12 perylene*
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**20**	**20**	**20**
Blanks									
Method Blank (2)	23182 Blank A	--		--	15.3 U	14.5 U	17.2 U	14.3 U	**51.8**
Method Blank (3)	23182 Blank B	--		--	15.3 U	14.5 U	17.2 U	14.3 U	13.4 U
Method Blank (4)	23182 Blank C	--		--	15.3 U	14.5 U	17.2 U	14.3 U	13.4 U
	Mean Blank								***17*** J
	10x Mean Blank								
Blank Spike Results									
Blank	23182 Blank A	--		--	15.3 U	14.5 U	17.2 U	14.3 U	**51.8**
Blank Spike A	23182 Blank Spike A	--		--	**1352**	**1316**	**1282**	**1409**	**1290**
	Spike Concentration				1250	1250	1250	1250	1250
	Percent Recovery A				**108%**	**105%**	**103%**	**113%**	**99%**
Blank	23182 Blank B	--		--	15.3 U	14.5 U	17.2 U	14.3 U	13.4 U
Blank Spike B	23182 Blank Spike B	--		--	**965**	**974**	**939**	**1020**	**922**
	Spike Concentration				1250	1250	1250	1250	1250
	Percent Recovery B				**77%**	**78%**	**75%**	**82%**	**74%**
Blank	23182 Blank C	--		--	15.3 U	14.5 U	17.2 U	14.3 U	13.4 U
Blank Spike C	23182 Blank Spike C	--		--	**563**	**573**	**557**	**639**	**542**
Blank Spike D	23182 Blank Spike D	--		--	**585**	**564**	**530**	**624**	**543**
	Spike Concentration				625	625	625	625	625
	Percent Recovery C				**90%**	**92%**	**89%**	**102%**	**87%**
	Percent Recovery D				**94%**	**90%**	**85%**	**100%**	**87%**

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MSL Sample ID	Client ID	Site Description	Event	Collection Date	benzo[b]fluoranthene *d12 perylene*	benzo[k]fluoranthene *d12 perylene*	benzo[a]pyrene *d12 perylene*	indeno[1,2,3-c,d]pyrene *d12 perylene*	dibenz[a,h]anthracene *d12 perylene*
Matrix Spike Results									
2318-63	T1103	AC	Storm 1	01/17/05	9.86 U	9.36 U	11.1 U	9.21 U	**20.9**
2318-63 Spk A	Spike A	AC		01/17/05	**1381**	**1351**	**1305**	**1401**	**1312**
2318-63 Spk B	Spike B	AC		01/17/05	**1404**	**1384**	**1358**	**1490**	**1339**
	Spike Concentration				1250	1250	1250	1250	1250
	Percent Recovery MS				**110%**	**108%**	**104%**	**112%**	**103%**
	Percent Recovery MSD				**112%**	**111%**	**109%**	**119%**	**105%**
	RPD				**2%**	**2%**	**4%**	**6%**	**2%**
Laboratory Duplicate Results									
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	**21.5**	8.29 U	**13.9 J**	**12.0 J**	7.67 U
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	**19.9 J**	8.29 U	**12.2 J**	**10.7 J**	7.67 U
	RPD				**8%**	**NA**	**13%**	**12%**	**NA**

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					Phthalate Results			
					benzo[g,h,i]perylene	**di-N-butyl phthalate**	**butylbenzyl phthalate**	**bis(2-ethylhexyl) phthalate**
MSL Sample ID	**Client ID**	**Site Description**	**Event**	**Collection Date**	*d12 perylene*	*d10 phenanthrene*	*d12 chrysene*	*d12 perylene*
LABORATORY REPORTING LIMIT (RL)					**20**	**40**	**40**	**40**
Blanks								
Method Blank (2)	23182 Blank A	--		--	14.4 U	**806** E	**443** E	**1400** E
Method Blank (3)	23182 Blank B	--		--	14.4 U	**173** E	**175** E	**5321** E
Method Blank (4)	23182 Blank C	--		--	14.4 U	**196** E	**192** E	**917** E
	Mean Blank					***392***	***270***	***2546***
	10x Mean Blank					***3919***	***2702***	***25460***
Blank Spike Results								
Blank	23182 Blank A	--		--	14.4 U	**806** E	**443** E	**1400** E
Blank Spike A	23182 Blank Spike A	--		--	**1352**	**4568** E	**4770** E	**5729** EB
	Spike Concentration				1250	2500	2500	2500
	Percent Recovery A				**108%**	**150% &**	**173% &**	**173% &**
Blank	23182 Blank B	--		--	14.4 U	**173** E	**175** E	**5321** E
Blank Spike B	23182 Blank Spike B	--		--	**995**	**2430** EB	**3028** E	**5313** EB
	Spike Concentration				1250	2500	2500	2500
	Percent Recovery B				**80%**	**90%**	**114%**	**NC**
Blank	23182 Blank C	--		--	14.4 U	**196** E	**192** E	**917** E
Blank Spike C	23182 Blank Spike C	--		--	**591**	**1732** EB	**2294** EB	**3347** EB
Blank Spike D	23182 Blank Spike D	--		--	**589**	**1566** EB	**2105** EB	**2079** EB
	Spike Concentration				625	1250	1250	1250
	Percent Recovery C				**95%**	**123% &**	**168% &**	**194% &**
	Percent Recovery D				**94%**	**110%**	**153% &**	**93%**

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					Phthalate Results			
					benzo[g,h,i]perylene	**di-N-butyl phthalate**	**butylbenzyl phthalate**	**bis(2-ethylhexyl) phthalate**
MSL Sample ID	**Client ID**	**Site Description**	**Event**	**Collection Date**	*d12 perylene*	*d10 phenanthrene*	*d12 chrysene*	*d12 perylene*
Matrix Spike Results								
2318-63	T1103	AC	Storm 1	01/17/05	9.26 U	**1375** BE	**738** BE	**1509** BE
2318-63 Spk A	Spike A	AC		01/17/05	**1338**	**8601** E	**5247** E	**6933** BE
2318-63 Spk B	Spike B	AC		01/17/05	**1431**	**8349** E	**5451** E	**6357** BE
	Spike Concentration				1250	2500	2500	2500
	Percent Recovery MS				**107%**	**289% &**	**180% &**	**217% &**
	Percent Recovery MSD				**115%**	**279% &**	**188% &**	**194% &**
	RPD				**7%**	**4%**	**4%**	**11%**
Laboratory Duplicate Results								
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	**16.8 J**	**372** BE	**240** BE	**2862** BE
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	**14.4 J**	**419** BE	**253** BE	**2624** BE
	RPD				**15%**	**12%**	**5%**	**9%**

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					Surrogate Recoveries				
					d8 naphthalene	d10 acenaphthene	d10 phenanthrene	d12 chrysene	d12 perylene
					(%)	*(%)*	*(%)*	*(%)*	*(%)*
MSL Sample ID	**Client ID**	**Site Description**	**Event**	**Collection Date**					
LABORATORY REPORTING LIMIT (RL)									
Blanks									
Method Blank (2)	23182 Blank A	--		--	88%	97%	111%	105%	104%
Method Blank (3)	23182 Blank B	--		--	75%	83%	89%	85%	87%
Method Blank (4)	23182 Blank C	--		--	81%	86%	92%	86%	86%
	Mean Blank								
	10x Mean Blank								
Blank Spike Results									
Blank	23182 Blank A	--		--	88%	97%	111%	105%	104%
Blank Spike A	23182 Blank Spike A	--		--	95%	100%	112%	108%	103%
	Spike Concentration								
	Percent Recovery A								
Blank	23182 Blank B	--		--	75%	83%	89%	85%	87%
Blank Spike B	23182 Blank Spike B	--		--	66%	70%	79%	81%	82%
	Spike Concentration								
	Percent Recovery B								
Blank	23182 Blank C	--		--	81%	86%	92%	86%	86%
Blank Spike C	23182 Blank Spike C	--		--	69%	73%	81%	84%	86%
Blank Spike D	23182 Blank Spike D	--		--	66%	72%	84%	89%	87%
	Spike Concentration								
	Percent Recovery C								
	Percent Recovery D								

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					Surrogate Recoveries				
					d8 naphthalene	**d10 acenaphthene**	**d10 phenanthrene**	**d12 chrysene**	**d12 perylene**
					(%)	*(%)*	*(%)*	*(%)*	*(%)*
MSL Sample ID	**Client ID**	**Site Description**	**Event**	**Collection Date**					
Matrix Spike Results									
2318-63	T1103	AC	Storm 1	01/17/05	75%	82%	89%	82%	82%
2318-63 Spk A	Spike A	AC		01/17/05	100%	104%	110%	110%	112%
2318-63 Spk B	Spike B	AC		01/17/05	92%	97%	106%	101%	102%
	Spike Concentration								
	Percent Recovery MS								
	Percent Recovery MSD								
	RPD								
Laboratory Duplicate Results									
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	63%	75%	83%	79%	82%
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	66%	72%	80%	77%	77%
	RPD								

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PAH Results

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Surrogate: Analysis Date	naphthalene *d8 naphthalene*	2 methyl naphthalene *d8 naphthalene*	acenaphthalene *d10 acenaphthene*	acenaphthene *d10 acenaphthene*	fluorine *d10 acenaphthene*
LABORATORY REPORTING LIMIT (RL)							**20**	**20**	**20**	**20**	**20**
Blanks											
Method Blank (1)	23183 Blank A	--	Storm 1	--	03/04/05	3/18/2005	8.35 U	10.0 U	12.8 U	12.1 U	10.6 U
Method Blank (2)	23183 Blank B	--	Storm 1	--	03/04/05	3/18/2005	8.35 U	10.0 U	12.8 U	12.1 U	10.6 U
	Mean Blank										
	10x Mean Blank										
Method Blank (3)	23184 blk 1	--	Storm 2	--	03/23/05	4/30/2005	8.35 U	10.0 U	12.8 U	12.1 U	10.6 U
Method Blank (4)	23184 blk 2	--	Storm 2	--	03/23/05	4/30/2005	8.35 U	10.0 U	12.8 U	12.1 U	10.6 U
	Mean Blank										
	10x Mean Blank										
Blank Spike Results											
Blank	23183 Blank B	--	Storm 1	--	03/04/05	3/18/2005	8.35 U	10.0 U	12.8 U	12.1 U	10.6 U
Blank Spike A	23183 Blank Spike A	--	Storm 1	--	03/04/05	3/18/2005	**359**	**244**	**509**	**526**	**548**
Blank Spike B	23183 Blank Spike B	--	Storm 1	--	03/04/05	3/18/2005	**355**	**173**	**373**	**388**	**415**
	Spike Concentration						625	625	625	625	625
	Percent Recovery A						**57%**	**39% &**	**81%**	**84%**	**88%**
	Percent Recovery B						**57%**	**28% &**	**60%**	**62%**	**66%**
Blank	23184 Blank	--	Storm 2	--	03/23/05	4/30/2005	8.35 U	10.0 U	12.8 U	12.1 U	10.6 U
Blank Spike A	23184 Blank Spike A	--	Storm 2	--	03/23/05	4/30/2005	**443**	**213**	**508**	**524**	**580**
Blank Spike B	23184 Blank Spike B	--	Storm 2	--	03/23/05	4/30/2005	**446**	**218**	**465**	**489**	**534**
	Spike Concentration						625	625	625	625	625
	Percent Recovery A						**71%**	**34% &**	**81%**	**84%**	**93%**
	Percent Recovery B						**71%**	**35% &**	**74%**	**78%**	**85%**
Matrix Spike Results											
2318-234	T1202	B-ST28	Storm 1	03/01/05	03/04/05	3/18/2005	**25.7**	**68.3**	**14.1**	10.5 U	**30.0**
2318-234 Spk A	Spike A	--	--	--	03/04/05	3/18/2005	**378**	**239**	**380**	**400**	**415**
2318-234 Spk B	Spike B	--	--	--	03/04/05	3/18/2005	**443**	**280**	**457**	**468**	**523**
	Spike Concentration						544	544	544	544	544
	Percent Recovery MS						**65%**	**31% &**	**67%**	**74%**	**71%**
	Percent Recovery MSD						**77%**	**39% &**	**81%**	**86%**	**91%**
	RPD						**17%**	**21%**	**19%**	**16%**	**24%**

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PAH Results

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Surrogate:	naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine
								d8 naphthalene	*d8 naphthalene*	*d10 acenaphthene*	*d10 acenaphthene*	*d10 acenaphthene*
Matrix Spike Results, cont.												
2318-312	T1212	PSNS124	Storm 2	03/20/05	03/23/05	4/30/2005		**32.4**	11.1 U	14.2 U	13.4 U	11.8 U
2318-312 Spk A	Spike A	--	--	--	03/23/05	4/30/2005		**583**	**300**	**587**	**605**	**608**
2318-312 Spk B	Spike B	--	--	--	03/23/05	4/30/2005		**549**	**263**	**553**	**578**	**624**
	Spike Concentration							694	694	694	694	694
	Percent Recovery MS							**79%**	**43%**	**85%**	**87%**	**88%**
	Percent Recovery MSD							**74%**	**38% &**	**80%**	**83%**	**90%**
	RPD							**6%**	**13%**	**6%**	**5%**	**3%**
Laboratory Duplicate Results												
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	03/04/05	3/18/2005		**18.0**	**7.12**	**8.08**	**8.85**	**15.7**
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	03/04/05	3/18/2005		**17.6**	**7.47**	7.94 U	7.49 U	**11.1**
	RPD							**2%**	**5%**	**NA**	**NA**	**34% &**
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	03/23/05	4/30/2005		**53.5**	**35.8**	**14.9**	**18.3**	**32.2**
2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	03/23/05	4/30/2005		**45.8**	**29.9**	**12.3**	**11.4**	**22.3**
	RPD							**16%**	**18%**	**19%**	**47% &**	**36% &**

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MSL Sample ID	Client ID	Site Description	Event	Collection Date	phenanthrene *d10 phenanthrene*	anthracene *d10 phenanthrene*	fluoranthene *d12 chrysene*	pyrene *d12 chrysene*	benz[a]anthracene *d12 chrysene*	chrysene *d12 chrysene*
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**20**	**20**	**20**	**20**
Blanks										
Method Blank (1)	23183 Blank A	--	Storm 1	--	16.4 U	11.6 U	17.9 U	**22.3**	16.0 U	17.6 U
Method Blank (2)	23183 Blank B	--	Storm 1	--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
	Mean Blank							***11.2*** *J*		
	10x Mean Blank									
Method Blank (3)	23184 blk 1	--	Storm 2	--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Method Blank (4)	23184 blk 2	--	Storm 2	--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
	Mean Blank									
	10x Mean Blank									
Blank Spike Results										
Blank	23183 Blank B	--	Storm 1	--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Blank Spike A	23183 Blank Spike A	--	Storm 1	--	**612**	**600**	**715**	**681**	**565**	**495**
Blank Spike B	23183 Blank Spike B	--	Storm 1	--	**437**	**452**	**485**	**479**	**519**	**467**
	Spike Concentration				625	625	625	625	625	625
	Percent Recovery A				**98%**	**96%**	**114%**	**109%**	**90%**	**79%**
	Percent Recovery B				**70%**	**72%**	**78%**	**77%**	**83%**	**75%**
Blank	23184 Blank	--	Storm 2	--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Blank Spike A	23184 Blank Spike A	--	Storm 2	--	**630**	**617**	**667**	**684**	**757**	**653**
Blank Spike B	23184 Blank Spike B	--	Storm 2	--	**569**	**564**	**612**	**601**	**483**	**427**
	Spike Concentration				625	625	625	625	625	625
	Percent Recovery A				**101%**	**99%**	**107%**	**109%**	**121% &**	**105%**
	Percent Recovery B				**91%**	**90%**	**98%**	**96%**	**77%**	**68%**
Matrix Spike Results										
2318-234	T1202	B-ST28	Storm 1	03/01/05	**144**	**15.9**	**240**	**284**	**50.7**	**138**
2318-234 Spk A	Spike A	--	--	--	**525**	**413**	**702**	**720**	**410**	**419**
2318-234 Spk B	Spike B	--	--	--	**647**	**547**	**875**	**879**	**608**	**610**
	Spike Concentration				544	544	544	544	544	544
	Percent Recovery MS				**70%**	**73%**	**85%**	**80%**	**66%**	**52%**
	Percent Recovery MSD				**92%**	**98%**	**117%**	**109%**	**102%**	**87%**
	RPD				**28%**	**29%**	**32% &**	**31% &**	**43% &**	**51% &**

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SINCLAIR AND DYES INLET 2005 STORMWATER
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PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Event	Collection Date	phenanthrene *d10 phenanthrene*	anthracene *d10 phenanthrene*	fluoranthene *d12 chrysene*	pyrene *d12 chrysene*	benz[a]anthracene *d12 chrysene*	chrysene *d12 chrysene*
Matrix Spike Results, cont.										
2318-312	T1212	PSNS124	Storm 2	03/20/05	**72.0**	12.8 U	**79.0**	**99.3**	**18.4**	**32.7**
2318-312 Spk A	Spike A	--	--	--	**640**	**617**	**718**	**695**	**733**	**636**
2318-312 Spk B	Spike B	--	--	--	**678**	**679**	**766**	**718**	**755**	**656**
	Spike Concentration				694	694	694	694	694	694
	Percent Recovery MS				**82%**	**87%**	**92%**	**86%**	**103%**	**87%**
	Percent Recovery MSD				**87%**	**96%**	**99%**	**89%**	**106%**	**90%**
	RPD				**7%**	**10%**	**7%**	**4%**	**3%**	**3%**
Laboratory Duplicate Results										
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	**144**	**13.5**	**381**	**312**	**78.1**	**169**
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	**99.9**	**9.37**	**274**	**224**	**56.3**	**127**
	RPD				**36% &**	**36% &**	**33% &**	**33% &**	**33% &**	**29%**
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	**384**	**44.4**	**735**	**576**	**200**	**303**
2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	**238**	**34.0**	**407**	**349**	**101**	**194**
	RPD				**47% &**	**27%**	**58% &**	**49% &**	**66% &**	**44% &**

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MSL Sample ID	Client ID	Site Description	Event	Collection Date	benzo[b]fluoranthene	benzo[k]fluoranthene	benzo[a]pyrene	indeno[1,2,3-c,d]pyrene
					d12 perylene	*d12 perylene*	*d12 perylene*	*d12 perylene*
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**20**	**20**
Blanks								
Method Blank (1)	23183 Blank A	--	Storm 1	--	15.3 U	14.5 U	**143**	14.3 U
Method Blank (2)	23183 Blank B	--	Storm 1	--	15.3 U	14.5 U	17.2 U	14.3 U
	Mean Blank						***71.4***	
	10x Mean Blank						***714***	
Method Blank (3)	23184 blk 1	--	Storm 2	--	15.3 U	14.5 U	17.2 U	14.3 U
Method Blank (4)	23184 blk 2	--	Storm 2	--	15.3 U	14.5 U	17.2 U	14.3 U
	Mean Blank							
	10x Mean Blank							
Blank Spike Results								
Blank	23183 Blank B	--	Storm 1	--	15.3 U	14.5 U	17.2 U	14.3 U
Blank Spike A	23183 Blank Spike A	--	Storm 1	--	**467**	**446**	**598**	**677**
Blank Spike B	23183 Blank Spike B	--	Storm 1	--	**425**	**422**	**399**	**459**
	Spike Concentration				625	625	625	625
	Percent Recovery A				**75%**	**71%**	**96%**	**108%**
	Percent Recovery B				**68%**	**68%**	**64%**	**73%**
Blank	23184 Blank	--	Storm 2	--	15.3 U	14.5 U	17.2 U	14.3 U
Blank Spike A	23184 Blank Spike A	--	Storm 2	--	**713**	**699**	**655**	**735**
Blank Spike B	23184 Blank Spike B	--	Storm 2	--	**609**	**581**	**575**	**614**
	Spike Concentration				625	625	625	625
	Percent Recovery A				**114%**	**112%**	**105%**	**118%**
	Percent Recovery B				**97%**	**93%**	**92%**	**98%**
Matrix Spike Results								
2318-234	T1202	B-ST28	Storm 1	03/01/05	**119**	**36.7**	**44.6 B**	**67.5**
2318-234 Spk A	Spike A	--	--	--	**417**	**314**	**413**	**363**
2318-234 Spk B	Spike B	--	--	--	**662**	**549**	**589**	**649**
	Spike Concentration				544	544	544	544
	Percent Recovery MS				**55%**	**51%**	**68%**	**54%**
	Percent Recovery MSD				**100%**	**94%**	**100%**	**107%**
	RPD				**58% &**	**59% &**	**39% &**	**65% &**

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PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Event	Collection Date	benzo[b]fluoranthene *d12 perylene*	benzo[k]fluoranthene *d12 perylene*	benzo[a]pyrene *d12 perylene*	indeno[1,2,3-c,d]pyrene *d12 perylene*
Matrix Spike Results, cont.								
2318-312	T1212	PSNS124	Storm 2	03/20/05	**24.7**	16.1	**90.0**	15.9 U
2318-312 Spk A	Spike A	--	--	--	**690**	**647**	**634**	**667**
2318-312 Spk B	Spike B	--	--	--	**718**	**672**	**663**	**704**
	Spike Concentration				694	694	694	694
	Percent Recovery MS				**96%**	**91%**	**78%**	**96%**
	Percent Recovery MSD				**100%**	**94%**	**83%**	**101%**
	RPD				**4%**	**4%**	**5%**	**5%**
Laboratory Duplicate Results								
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	**169**	**55.4**	**85.8 B**	**101**
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	**118**	**38.6**	**62.2 B**	**73.8**
	RPD				**35% &**	**36% &**	**32% &**	**31% &**
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	**370**	**125**	**216 B**	**221**
2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	**230**	**74.8**	**121 B**	**133**
	RPD				**46% &**	**50% &**	**57% &**	**49% &**

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MSL Sample ID	Client ID	Site Description	Event	Collection Date	dibenz[a,h]anthracene	benzo[g,h,i]perylene	di-N-butyl phthalate	butylbenzyl phthalate	bis (2-ethylhexyl) phthalate
					d12 perylene	*d12 perylene*	*d10 phenanthrene*	*d12 chrysene*	*d12 perylene*
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**40**	**40**	**40**
Blanks									
Method Blank (1)	23183 Blank A	--	Storm 1	--	13.4 U	14.4 U	**999** E	**510** E	**858** E
Method Blank (2)	23183 Blank B	--	Storm 1	--	13.4 U	14.4 U	**421** E	**183** E	**246** E
	Mean Blank						***710***	***346***	***552***
	10x Mean Blank						***7101***	***3464***	***5516***
Method Blank (3)	23184 blk 1	--	Storm 2	--	13.4 U	14.4 U	**1364** E	**161** E	**4304** E
Method Blank (4)	23184 blk 2	--	Storm 2	--	13.4 U	14.4 U	**2440** E	**141** E	**345** E
	Mean Blank						***1902***	***151***	***2325***
	10x Mean Blank						***19018***	***1514***	***23248***
Blank Spike Results									
Blank	23183 Blank B	--	Storm 1	--	13.4 U	14.4 U	**421** E	**183** E	**246** E
Blank Spike A	23183 Blank Spike A	--	Storm 1	--	**1170**	**654**	**2634** BE	**2307** BE	**7865** E
Blank Spike B	23183 Blank Spike B	--	Storm 1	--	**402**	**434**	**1456** BE	**2028** BE	**5008** BE
	Spike Concentration				625	625	1250	1250	1250
	Percent Recovery A				**187%**	**105%**	**177% &**	**170% &**	**610% &**
	Percent Recovery B				**64%**	**69%**	**83%**	**148% &**	**381% &**
Blank	23184 Blank	--	Storm 2	--	13.4 U	14.4 U	**1364** E	**161** E	**4304** E
Blank Spike A	23184 Blank Spike A	--	Storm 2	--	**677**	**751**	**2003** BE	**1954** E	**3950** BE
Blank Spike B	23184 Blank Spike B	--	Storm 2	--	**589**	**611**	**4235** BE	**1715** E	**2239** BE
	Spike Concentration				625	625	1250	1250	1250
	Percent Recovery A				**108%**	**120%**	**51%**	**143% &**	**28% &**
	Percent Recovery B				**94%**	**98%**	**230% &**	**124% &**	**165% &**
Matrix Spike Results									
2318-234	T1202	B-ST28	Storm 1	03/01/05	**429**	**136**	**1037** BE	**2103** BE	**5785** E
2318-234 Spk A	Spike A	--	--	--	**308**	**440**	**375** BE	**578** BE	**4520** BE
2318-234 Spk B	Spike B	--	--	--	**713**	**676**	**2371** BE	**3464** E	**5285** BE
	Spike Concentration				544	544	1088	1088	1088
	Percent Recovery MS				**22% &**	**56%**	**61%**	**140% &**	**116%**
	Percent Recovery MSD				**52%**	**99%**	**123% &**	**125% &**	**46%**
	RPD				**80% &**	**56% &**	**67% &**	**11%**	**87% &**

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SINCLAIR AND DYES INLET 2005 STORMWATER
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PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Event	Collection Date	dibenz[a,h]anthracene	benzo[g,h,i]perylene	di-N-butyl phthalate	butylbenzyl phthalate	bis (2-ethylhexyl) phthalate
					d12 perylene	*d12 perylene*	*d10 phenanthrene*	*d12 chrysene*	*d12 perylene*
Matrix Spike Results, cont.									
2318-312	T1212	PSNS124	Storm 2	03/20/05	14.9 U	15.9 U	**2241** BE	**1932** E	**5787** BE
2318-312 Spk A	Spike A	--	--	--	**593**	**656**	**4344** BE	**3582** E	**7383** BE
2318-312 Spk B	Spike B	--	--	--	**630**	**697**	**5125** BE	**3734** E	**8014** BE
	Spike Concentration				694	694	1389	1389	1389
	Percent Recovery MS				**85%**	**95%**	**151% &**	**119%**	**115%**
	Percent Recovery MSD				**91%**	**100%**	**208% &**	**130% &**	**160% &**
	RPD				**6%**	**6%**	**31% &**	**9%**	**33% &**
Laboratory Duplicate Results									
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	**24.5**	**129**	**432** BE	**1022** BE	**5805** E
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	**18.8**	**92.7**	**559** BE	**723** BE	**6176** E
	RPD				**26%**	**33% &**	**26%**	**34% &**	**6%**
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	**42.3**	**231**	**3307** BE	**1167** BE	**12041** BE
2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	**32.3**	**146**	**2773** BE	**771** BE	**7664** BE
	RPD				**27%**	**45% &**	**18%**	**41% &**	**44% &**

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QC Summary - Sinclair Inlet Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Surrogate Recoveries: d8 naphthalene (%)	d10 acenaphthene (%)	d10 phenanthrene (%)	d12 chrysene (%)	d12 perylene (%)
LABORATORY REPORTING LIMIT (RL)									
Blanks									
Method Blank (1)	23183 Blank A	--	Storm 1	--	60%	63%	98%	51%	66%
Method Blank (2)	23183 Blank B	--	Storm 1	--	48%	67%	76%	76%	80%
	Mean Blank								
	10x Mean Blank								
Method Blank (3)	23184 blk 1	--	Storm 2	--	75%	76%	95%	87%	90%
Method Blank (4)	23184 blk 2	--	Storm 2	--	74%	75%	95%	103%	101%
	Mean Blank								
	10x Mean Blank								
Blank Spike Results									
Blank	23183 Blank B	--	Storm 1	--	48%	67%	76%	76%	80%
Blank Spike A	23183 Blank Spike A	--	Storm 1	--	57%	80%	90%	67%	91%
Blank Spike B	23183 Blank Spike B	--	Storm 1	--	64%	67%	77%	77%	71%
	Spike Concentration								
	Percent Recovery A								
	Percent Recovery B								
Blank	23184 Blank	--	Storm 2	--	75%	76%	95%	87%	90%
Blank Spike A	23184 Blank Spike A	--	Storm 2	--	85%	86%	110%	117%	111%
Blank Spike B	23184 Blank Spike B	--	Storm 2	--	79%	85%	99%	74%	101%
	Spike Concentration								
	Percent Recovery A								
	Percent Recovery B								
Matrix Spike Results									
2318-234	T1202	B-ST28	Storm 1	03/01/05	50%	76%	82%	68%	81%
2318-234 Spk A	Spike A	--	--	--	59%	63%	79%	48%	55%
2318-234 Spk B	Spike B	--	--	--	67%	72%	81%	72%	81%
	Spike Concentration								
	Percent Recovery MS								
	Percent Recovery MSD								
	RPD								

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					Surrogate Recoveries				
					d8 naphthalene	**d10 acenaphthene**	**d10 phenanthrene**	**d12 chrysene**	**d12 perylene**
					(%)	*(%)*	*(%)*	*(%)*	*(%)*
MSL Sample ID	**Client ID**	**Site Description**	**Event**	**Collection Date**					
Matrix Spike Results, cont.									
2318-312	T1212	PSNS124	Storm 2	03/20/05	73%	75%	99%	95%	88%
2318-312 Spk A	Spike A	--	--	--	77%	81%	94%	95%	99%
2318-312 Spk B	Spike B	--	--	--	87%	88%	106%	103%	107%
	Spike Concentration								
	Percent Recovery MS								
	Percent Recovery MSD								
	RPD								
Laboratory Duplicate Results									
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	49%	72%	77%	65%	73%
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	53%	60%	62%	52%	59%
	RPD								
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	78%	88%	103%	96%	105%
2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	70%	77%	89%	81%	92%
	RPD								

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

PAH Results

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Surrogate:	naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine
								d8 naphthalene	*d8 naphthalene*	*d10 acenaphthene*	*d10 acenaphthene*	*d10 acenaphthene*
LABORATORY REPORTING LIMIT (RL)								**20**	**20**	**20**	**20**	**20**
Blanks												
Method Blank (1)	23185 blk		Storm 1	--	3/29/2005	4/30/2005		8.35 U	10.0 U	12.8 U	12.1 U	10.6 U
	10x blank											
Method Blank (2)	23186 blk		Storm 2/wet season	--	4/5/2005	4/30/2005		8.35 U	10.0 U	12.8 U	12.1 U	10.6 U
	10x blank											
Method Blank (3)	23187 blk		Make-up Storm	--	4/13/2005	4/30/2005		**11.2** J	10.0 U	12.8 U	12.1 U	10.6 U
	10x blank											
Blank Spike Results												
Blank	23185 blk	--	Storm 1	--	3/29/2005	4/30/2005		8.35 U	10.0 U	12.8 U	12.1 U	10.6 U
Blank Spike A	23185 blk spk A	--	Storm 1	--	3/29/2005	4/30/2005		**456**	**229**	**483**	**507**	**559**
Blank Spike B	23185 blk spk B	--	Storm 1	--	3/29/2005	4/30/2005		**510**	**258**	**556**	**590**	**616**
	Spike Concentration							625	625	625	625	625
	Percent Recovery A							**73%**	**37% &**	**77%**	**81%**	**89%**
	Percent Recovery B							**82%**	**41%**	**89%**	**94%**	**98%**
Blank	23186 blk	--	Storm 2/wet season	--	4/5/2005	4/30/2005		8.35 U	10.0 U	12.8 U	12.1 U	10.6 U
Blank Spike A	23186 blk spk A	--	Storm 2/wet season	--	4/5/2005	4/30/2005		**553**	**276**	**571**	**615**	**641**
Blank Spike B	23186 blk spk B	--	Storm 2/wet season	--	4/5/2005	4/30/2005		**530**	**262**	**523**	**562**	**569**
	Spike Concentration							625	625	625	625	625
	Percent Recovery A							**88%**	**44%**	**91%**	**98%**	**103%**
	Percent Recovery B							**85%**	**42%**	**84%**	**90%**	**91%**
Blank	23187 blk	--	Make-up Storm	--	4/13/2005	4/30/2005		**11.2** J	10.0 U	12.8 U	12.1 U	10.6 U
Blank Spike A	23187 blk spk	--	Make-up Storm	--	4/13/2005	4/30/2005		**491**	**250**	**545**	**555**	**571**
	Spike Concentration							625	625	625	625	625
	Percent Recovery A							**77%**	**40%**	**87%**	**89%**	**91%**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

PAH Results

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Surrogate:	naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine
								d8 naphthalene	*d8 naphthalene*	*d10 acenaphthene*	*d10 acenaphthene*	*d10 acenaphthene*
Matrix Spike Results												
2318-386	T1304	CH	Storm 1	03/27/05	3/29/2005	5/1/2005		**12.6 J**	9.01 U	11.5 U	10.9 U	9.59 U
2318-386 Spk A	Spike A	--	Storm 1	--	3/29/2005	5/1/2005		**476**	**245**	**536**	**556**	**591**
2318-386 Spk B	Spike B	--	Storm 1	--	3/29/2005	5/1/2005		**383**	**188**	**400**	**427**	**494**
	Spike Concentration							625	625	625	625	625
	Percent Recovery MS							**74%**	**39% &**	**86%**	**89%**	**95%**
	Percent Recovery MSD							**59%**	**30% &**	**64%**	**68%**	**79%**
	RPD							**22%**	**26%**	**29%**	**26%**	**18%**
2318-445	T1313	SW6	Storm 2	04/01/05	4/5/2005	5/1/2005		**12.5 J**	8.10 U	10.4 U	9.77 U	8.62 U
2318-445 Spk A	Spike A	--	Storm 2	--	4/5/2005	5/1/2005		**458**	**234**	**481**	**511**	**554**
2318-445 Spk B	Spike B	--	Storm 2	--	4/5/2005	5/1/2005		**596**	**307**	**623**	**647**	**669**
	Spike Concentration							625	625	625	625	625
	Percent Recovery MS							**71%**	**37% &**	**77%**	**82%**	**89%**
	Percent Recovery MSD							**93%**	**49%**	**100%**	**104%**	**107%**
	RPD							**27%**	**27%**	**26%**	**24%**	**19%**
Laboratory Duplicate Results												
2318-382 R-1	T1302	CC	Storm 1	03/27/05	3/29/2005	5/1/2005		**14.7 J**	7.14 U	9.13 U	8.61 U	7.60 U
2318-382 R-2	T1302	CC	Storm 1	03/27/05	3/29/2005	5/1/2005		**16.0 J**	7.14 U	9.13 U	8.61 U	7.60 U
	RPD							**9%**	**NA**	**NA**	**NA**	**NA**
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	4/5/2005	5/1/2005		6.30 U	7.55 U	9.65 U	9.10 U	8.04 U
2318-446 R-2	T1314	B-ST12	Storm 2	04/01/05	4/5/2005	5/1/2005		6.30 U	7.55 U	9.65 U	9.10 U	8.04 U
	RPD							**NA**	**NA**	**NA**	**NA**	**NA**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Event	Collection Date	phenanthrene *d10 phenanthrene*	anthracene *d10 phenanthrene*	fluoranthene *d12 chrysene*	pyrene *d12 chrysene*	benz[a]anthracene *d12 chrysene*	chrysene *d12 chrysene*
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**20**	**20**	**20**	**20**
Blanks										
Method Blank (1)	23185 blk		Storm 1	--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
	10x blank									
Method Blank (2)	23186 blk		Storm 2/wet season	--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
	10x blank									
Method Blank (3)	23187 blk		Make-up Storm	--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
	10x blank									
Blank Spike Results										
Blank	23185 blk	--	Storm 1	--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Blank Spike A	23185 blk spk A	--	Storm 1	--	**603**	**614**	**685**	**671**	**730**	**640**
Blank Spike B	23185 blk spk B	--	Storm 1	--	**700 ***	**636 ***	**759**	**3102**	**773**	**666**
	Spike Concentration				625	625	625	625	625	625
	Percent Recovery A				**97%**	**98%**	**110%**	**107%**	**117%**	**102%**
	Percent Recovery B				**112%**	**102%**	**121% &**	**496% &**	**124% &**	**107%**
Blank	23186 blk	--	Storm 2/wet season	--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Blank Spike A	23186 blk spk A	--	Storm 2/wet season	--	**675 ***	**667 ***	**739**	**740**	**590**	**523**
Blank Spike B	23186 blk spk B	--	Storm 2/wet season	--	**637**	**590**	**670**	**666**	**693**	**638**
	Spike Concentration				625	625	625	625	625	625
	Percent Recovery A				**108%**	**107%**	**118%**	**118%**	**94%**	**84%**
	Percent Recovery B				**102%**	**94%**	**107%**	**107%**	**111%**	**102%**
Blank	23187 blk	--	Make-up Storm	--	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Blank Spike A	23187 blk spk	--	Make-up Storm	--	**597**	**601**	**665**	**641**	**654**	**608**
	Spike Concentration				625	625	625	625	625	625
	Percent Recovery A				**96%**	**96%**	**106%**	**103%**	**105%**	**97%**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Event	Collection Date	phenanthrene *d10 phenanthrene*	anthracene *d10 phenanthrene*	fluoranthene *d12 chrysene*	pyrene *d12 chrysene*	benz[a]anthracene *d12 chrysene*	chrysene *d12 chrysene*
Matrix Spike Results										
2318-386	T1304	CH	Storm 1	03/27/05	14.8 U	10.4 U	16.1 U	**29.3**	14.4 U	15.9 U
2318-386 Spk A	Spike A	--	Storm 1	--	**643**	**660**	**767**	**730**	**780**	**680**
2318-386 Spk B	Spike B	--	Storm 1	--	**555**	**543**	**650**	**632**	**674**	**591**
	Spike Concentration				625	625	625	625	625	625
	Percent Recovery MS				**103%**	**106%**	**123% &**	**112%**	**125% &**	**109%**
	Percent Recovery MSD				**89%**	**87%**	**104%**	**96%**	**108%**	**95%**
	RPD				**15%**	**19%**	**17%**	**15%**	**15%**	**14%**
2318-445	T1313	SW6	Storm 2	04/01/05	13.3 U	9.37 U	14.5 U	15.1 U	13.0 U	14.3 U
2318-445 Spk A	Spike A	--	Storm 2	--	**631**	**629**	**755**	**720**	**742**	**663**
2318-445 Spk B	Spike B	--	Storm 2	--	**717**	**729**	**836**	**796**	**830**	**730**
	Spike Concentration				625	625	625	625	625	625
	Percent Recovery MS				**101%**	**101%**	**121% &**	**115%**	**119%**	**106%**
	Percent Recovery MSD				**115%**	**117%**	**134% &**	**127% &**	**133% &**	**117%**
	RPD				**13%**	**15%**	**10%**	**10%**	**11%**	**10%**
Laboratory Duplicate Results										
2318-382 R-1	T1302	CC	Storm 1	03/27/05	11.7 U	8.26 U	**13.2 J**	**14.6 J**	11.4 U	12.6 U
2318-382 R-2	T1302	CC	Storm 1	03/27/05	11.7 U	8.26 U	12.8 U	13.3 U	11.4 U	12.6 U
	RPD				**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	**59.7**	8.73 U	**206**	**148**	**47.0**	**97.2**
2318-446 R-2	T1314	B-ST12	Storm 2	04/01/05	**66.0**	8.73 U	**212**	**156**	**54.2**	**100**
	RPD				**10%**	**NA**	**3%**	**5%**	**14%**	**3%**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Event	Collection Date	benzo[b]fluoranthene	benzo[k]fluoranthene	benzo[a]pyrene	indeno[1,2,3-c,d]pyrene
					d12 perylene	*d12 perylene*	*d12 perylene*	*d12 perylene*
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**20**	**20**
Blanks								
Method Blank (1)	23185 blk		Storm 1	--	15.3 U	14.5 U	17.2 U	14.3 U
	10x blank							
Method Blank (2)	23186 blk		Storm 2/wet season	--	15.3 U	14.5 U	17.2 U	14.3 U
	10x blank							
Method Blank (3)	23187 blk		Make-up Storm	--	15.3 U	14.5 U	17.2 U	14.3 U
	10x blank							
Blank Spike Results								
Blank	23185 blk	--	Storm 1	--	15.3 U	14.5 U	17.2 U	14.3 U
Blank Spike A	23185 blk spk A	--	Storm 1	--	**702**	**675**	**635**	**688**
Blank Spike B	23185 blk spk B	--	Storm 1	--	**559**	**515**	**2118**	**521**
	Spike Concentration				625	625	625	625
	Percent Recovery A				**112%**	**108%**	**102%**	**110%**
	Percent Recovery B				**89%**	**82%**	**339% &**	**83%**
Blank	23186 blk	--	Storm 2/wet season	--	15.3 U	14.5 U	17.2 U	14.3 U
Blank Spike A	23186 blk spk A	--	Storm 2/wet season	--	**792 ***	**761 ***	**704 ***	**794 ***
Blank Spike B	23186 blk spk B	--	Storm 2/wet season	--	**678**	**660**	**610**	**689**
	Spike Concentration				625	625	625	625
	Percent Recovery A				**127% &**	**122% &**	**113%**	**127% &**
	Percent Recovery B				**109%**	**106%**	**98%**	**110%**
Blank	23187 blk	--	Make-up Storm	--	15.3 U	14.5 U	17.2 U	14.3 U
Blank Spike A	23187 blk spk	--	Make-up Storm	--	**633**	**627**	**603**	**649**
	Spike Concentration				625	625	625	625
	Percent Recovery A				**101%**	**100%**	**97%**	**104%**

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SINCLAIR AND DYES INLET 2005 STORMWATER
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PAH/Phthalate Results for Water Samples
Reported in ng/L

MSL Sample ID	Client ID	Site Description	Event	Collection Date	benzo[b]fluoranthene *d12 perylene*	benzo[k]fluoranthene *d12 perylene*	benzo[a]pyrene *d12 perylene*	indeno[1,2,3-c,d]pyrene *d12 perylene*
Matrix Spike Results								
2318-386	T1304	CH	Storm 1	03/27/05	13.8 U	13.1 U	**26.1**	12.9 U
2318-386 Spk A	Spike A	--	Storm 1	--	**765**	**716**	**692**	**747**
2318-386 Spk B	Spike B	--	Storm 1	--	**666**	**628**	**607**	**663**
	Spike Concentration				625	625	625	625
	Percent Recovery MS				**122% &**	**115%**	**106%**	**119%**
	Percent Recovery MSD				**107%**	**100%**	**93%**	**106%**
	RPD				**14%**	**13%**	**14%**	**12%**
2318-445	T1313	SW6	Storm 2	04/01/05	12.4 U	11.8 U	13.9 U	11.6 U
2318-445 Spk A	Spike A	--	Storm 2	--	**761**	**699**	**684**	**726**
2318-445 Spk B	Spike B	--	Storm 2	--	**850**	**783**	**769**	**800**
	Spike Concentration				625	625	625	625
	Percent Recovery MS				**122% &**	**112%**	**109%**	**116%**
	Percent Recovery MSD				**136% &**	**125% &**	**123% &**	**128% &**
	RPD				**11%**	**11%**	**12%**	**10%**
Laboratory Duplicate Results								
2318-382 R-1	T1302	CC	Storm 1	03/27/05	10.9 U	10.4 U	12.3 U	10.2 U
2318-382 R-2	T1302	CC	Storm 1	03/27/05	10.9 U	10.4 U	12.3 U	10.2 U
	RPD				**NA**	**NA**	**NA**	**NA**
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	**127**	**43.2**	**59.9**	**67.2**
2318-446 R-2	T1314	B-ST12	Storm 2	04/01/05	**129**	**43.7**	**64.1**	**68.8**
	RPD				**1%**	**1%**	**7%**	**2%**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

							Phthalate Results		
					dibenz[a,h]anthracene	**benzo[g,h,i]perylene**	**di-N-butyl phthalate**	**butylbenzyl phthalate**	**bis(2-ethylhexyl) phthalate**
MSL Sample ID	**Client ID**	**Site Description**	**Event**	**Collection Date**	*d12 perylene*	*d12 perylene*	*d10 phenanthrene*	*d12 chrysene*	*d12 perylene*
LABORATORY REPORTING LIMIT (RL)					**20**	**20**	**40**	**40**	**40**
Blanks									
Method Blank (1)	23185 blk		Storm 1	--	13.4 U	14.4 U	**407**	**205**	**1567**
	10x blank						***4069***	***2050***	***15671***
Method Blank (2)	23186 blk		Storm 2/wet season	--	13.4 U	14.4 U	**649**	**154**	**389**
	10x blank						***6487***	***1539***	***3886***
Method Blank (3)	23187 blk		Make-up Storm	--	13.4 U	14.4 U	**129**	**97.5**	**91.7**
	10x blank						***1295***	***975***	***917***
Blank Spike Results									
Blank	23185 blk	--	Storm 1	--	13.4 U	14.4 U	**407**	**205**	**1567**
Blank Spike A	23185 blk spk A	--	Storm 1	--	**614**	**685**	**2773** EB	**2201** EB	**6162** EB
Blank Spike B	23185 blk spk B	--	Storm 1	--	**467**	**516**	**2036** EB*	**2129** EB	**4024** EB
	Spike Concentration				625	625	1250	1250	1250
	Percent Recovery A				**98%**	**110%**	**189% &**	**160%**	**368%**
	Percent Recovery B				**75%**	**83%**	**130% &**	**154%**	**197%**
Blank	23186 blk	--	Storm 2/wet season	--	13.4 U	14.4 U	**649**	**154**	**389**
Blank Spike A	23186 blk spk A	--	Storm 2/wet season	--	**696 ***	**790 ***	**1991** EB*	**1474** EB	**2356** EB*
Blank Spike B	23186 blk spk B	--	Storm 2/wet season	--	**606**	**675**	**1516** EB	**1758** EB	**2772** EB
	Spike Concentration				625	625	1250	1250	1250
	Percent Recovery A				**111%**	**126% &**	**107%**	**106%**	**157% &**
	Percent Recovery B				**97%**	**108%**	**69%**	**128% &**	**191% &**
Blank	23187 blk	--	Make-up Storm	--	13.4 U	14.4 U	**129**	**97.5**	**91.7**
Blank Spike A	23187 blk spk	--	Make-up Storm	--	**578**	**647**	**1438** E	**1644** E	**3502** E
	Spike Concentration				625	625	1250	1250	1250
	Percent Recovery A				**92%**	**103%**	**105%**	**124% &**	**273% &**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PAH/Phthalate Results for Water Samples
Reported in ng/L

							Phthalate Results		
					dibenz[a,h]anthracene	**benzo[g,h,i]perylene**	**di-N-butyl phthalate**	**butylbenzyl phthalate**	**bis(2-ethylhexyl) phthalate**
MSL Sample ID	**Client ID**	**Site Description**	**Event**	**Collection Date**	*d12 perylene*	*d12 perylene*	*d10 phenanthrene*	*d12 chrysene*	*d12 perylene*
Matrix Spike Results									
2318-386	T1304	CH	Storm 1	03/27/05	12.1 U	12.9 U	**981** EB	**162** EB	**681** EB
2318-386 Spk A	Spike A	--	Storm 1	--	**665**	**744**	**2627** E	**2275** E	**3812** EB
2318-386 Spk B	Spike B	--	Storm 1	--	**589**	**659**	**2387** E	**1981** E	**3379** EB
	Spike Concentration				625	625	1250	1250	1250
	Percent Recovery MS				**106%**	**119%**	**132% &**	**169% &**	**251% &**
	Percent Recovery MSD				**94%**	**105%**	**112%**	**146% &**	**216% &**
	RPD				**12%**	**12%**	**16%**	**15%**	**15%**
2318-445	T1313	SW6	Storm 2	04/01/05	10.9 U	11.6 U	**992** EB	**165** EB	**544** EB
2318-445 Spk A	Spike A	--	Storm 2	--	**632**	**736**	**2872** E	**2386** E	**6910** E
2318-445 Spk B	Spike B	--	Storm 2	--	**692**	**807**	**3067** E	**2685** E	**7240** E
	Spike Concentration				625	625	1250	1250	1250
	Percent Recovery MS				**101%**	**118%**	**150% &**	**178% &**	**509% &**
	Percent Recovery MSD				**111%**	**129% &**	**166% &**	**202% &**	**536% &**
	RPD				**9%**	**9%**	**10%**	**13%**	**5%**
Laboratory Duplicate Results									
2318-382 R-1	T1302	CC	Storm 1	03/27/05	9.59 U	10.2 U	**3602** E	**278** EB	**1408** EB
2318-382 R-2	T1302	CC	Storm 1	03/27/05	9.59 U	10.2 U	**1376** EB	**237** EB	**2648** EB
	RPD				**NA**	**NA**	**89% &**	**16%**	**61% &**
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	**11.2** J	**62.2**	**840** EB	**189** EB	**2542** E
2318-446 R-2	T1314	B-ST12	Storm 2	04/01/05	**12.2** J	**63.6**	**802** EB	**221** EB	**9100** E
	RPD				**9%**	**2%**	**5%**	**16%**	**113% &**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PAH/Phthalate Results for Water Samples

					Surrogate Recoveries				
					d8 naphthalene	d10 acenaphthene	d10 phenanthrene	d12 chrysene	d12 perylene
					(%)	*(%)*	*(%)*	*(%)*	*(%)*
MSL Sample ID	**Client ID**	**Site Description**	**Event**	**Collection Date**					
LABORATORY REPORTING LIMIT (RL)									
Blanks									
Method Blank (1)	23185 blk		Storm 1	--	77%	86%	106%	101%	106%
	10x blank								
Method Blank (2)	23186 blk		Storm 2/wet season	--	78%	84%	100%	97%	100%
	10x blank								
Method Blank (3)	23187 blk		Make-up Storm	--	83%	93%	102%	93%	101%
	10x blank								
Blank Spike Results									
Blank	23185 blk	--	Storm 1	--	77%	86%	106%	101%	106%
Blank Spike A	23185 blk spk A	--	Storm 1	--	80%	85%	100%	99%	100%
Blank Spike B	23185 blk spk B	--	Storm 1	--	85%	92%	122% #	109%	75%
	Spike Concentration								
	Percent Recovery A								
	Percent Recovery B								
Blank	23186 blk	--	Storm 2/wet season	--	78%	84%	100%	97%	100%
Blank Spike A	23186 blk spk A	--	Storm 2/wet season	--	109%	114%	126% #	94%	129% #
Blank Spike B	23186 blk spk B	--	Storm 2/wet season	--	92%	100%	107%	102%	102%
	Spike Concentration								
	Percent Recovery A								
	Percent Recovery B								
Blank	23187 blk	--	Make-up Storm	--	83%	93%	102%	93%	101%
Blank Spike A	23187 blk spk	--	Make-up Storm	--	88%	103%	113%	102%	109%
	Spike Concentration								
	Percent Recovery A								

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PAH/Phthalate Results for Water Samples

					Surrogate Recoveries				
					d8 naphthalene	d10 acenaphthene	d10 phenanthrene	d12 chrysene	d12 perylene
					(%)	*(%)*	*(%)*	*(%)*	*(%)*
MSL Sample ID	**Client ID**	**Site Description**	**Event**	**Collection Date**					
Matrix Spike Results									
2318-386	T1304	CH	Storm 1	03/27/05	72%	78%	90%	89%	91%
2318-386 Spk A	Spike A	--	Storm 1	--	70%	78%	97%	95%	94%
2318-386 Spk B	Spike B	--	Storm 1	--	76%	89%	103%	104%	108%
	Spike Concentration								
	Percent Recovery MS								
	Percent Recovery MSD								
	RPD								
2318-445	T1313	SW6	Storm 2	04/01/05	77%	85%	105%	103%	107%
2318-445 Spk A	Spike A	--	Storm 2	--	73%	80%	98%	101%	108%
2318-445 Spk B	Spike B	--	Storm 2	--	92%	99%	115%	113%	120%
	Spike Concentration								
	Percent Recovery MS								
	Percent Recovery MSD								
	RPD								
Laboratory Duplicate Results									
2318-382 R-1	T1302	CC	Storm 1	03/27/05	83%	91%	111%	106%	110%
2318-382 R-2	T1302	CC	Storm 1	03/27/05	85%	93%	106%	100%	105%
	RPD								
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	73%	86%	102%	99%	106%
2318-446 R-2	T1314	B-ST12	Storm 2	04/01/05	73%	86%	107%	103%	108%
	RPD								

QC Sample Results: 2005 Storm Water Organic Contaminants - PCBs

- Gorst
- Sinclair Inlet
- Dyes Inlet, Wet Season Baseflow

BATTELLE MARINE SCIENCES LABORATORIES
1529 West Sequim Bay Road
Sequim, Washington 98382
(360) 681-4564

SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Gorst Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Description	Event	Collection Date	Extraction Date	Analysis Date	Aroclor 1268 (ng/L)	PCB008 (ng/L)	PCB018 (ng/L)	PCB028 (ng/L)	PCB052 (ng/L)	PCB044 (ng/L)	PCB066 (ng/L)
LABORATORY REPORTING LIMIT (RL)							**40**	**2**	**2**	**2**	**2**	**2**	**2**
Blanks													
Method Blank (1)	23182 Blank A	--		--	1/20/2005	2/17/2005	32.6 U	1.15 U	0.75 U	0.32 U	**2.36**	0.55 U	0.42 U
Method Blank (2)	23182 Blank B	--		--	1/21/2005	2/17/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
Method Blank (3)	23182 Blank C	--		--	1/26/2005	2/17/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
Blank Spike Results													
Blank	23182 Blank A	--		--	1/20/2005	2/17/2005	32.6 U	1.15 U	0.75 U	0.32 U	**2.36**	0.55 U	0.42 U
Blank Spike A	23182 Blank Spike A	--		--	1/20/2005	2/17/2005	32.6 U	**45.0**	**41.9**	**41.7**	**42.5**	**39.6**	**66.3**
	Spike Concentration						NS	50.0	50.0	50.0	50.0	50.0	50.0
	Percent Recovery A						**NA**	**90%**	**84%**	**83%**	**80%**	**79%**	**133% &**
Blank	23182 Blank B	--		--	1/21/2005	2/17/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
Blank Spike B	23182 Blank Spike B	--		--	1/21/2005	2/18/2005	32.6 U	**34.1**	**37.1**	**35.7**	**34.7**	**35.2**	**44.7**
	Spike Concentration						NS	50.0	50.0	50.0	50.0	50.0	50.0
	Percent Recovery B						**NA**	**68%**	**74%**	**71%**	**69%**	**70%**	**89%**
Blank	23182 Blank C	--		--	1/26/2005	2/17/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
Blank Spike C	23182 Blank Spike C	--		--	1/26/2005	2/18/2005	32.6 U	**18.1**	**21.7**	**11.4**	**22.7**	**22.3**	**29.4**
Blank Spike D	23182 Blank Spike D	--		--	1/26/2005	2/18/2005	32.6 U	**21.2**	**19.7**	**19.2**	**23.0**	**19.9**	**25.5**
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery C						**NA**	**72%**	**87%**	**46%**	**91%**	**89%**	**118%**
	Percent Recovery D						**NA**	**85%**	**79%**	**77%**	**92%**	**80%**	**102%**
MATRIX SPIKE RESULTS													
2318-63	T1103	AC	Storm 1	01/17/05	1/20/2005	2/18/2005	21.0 U	0.742 U	0.484 U	0.206 U	0.852 U	0.355 U	0.271 U
2318-63 Spk A	T1103 MS	AC		01/17/05	1/20/2005	2/18/2005	32.6 U	**45.6**	**44.8**	**24.2**	**47.0**	**45.5**	**62.8**
2318-63 Spk B	T1103 MSD	AC		01/17/05	1/20/2005	2/18/2005	32.6 U	**42.6**	**49.8**	**52.2**	**57.9**	**48.1**	**59.0**
	Spike Concentration MS						NS	50.0	50.0	50.0	50.0	50.0	50.0
	Spike Concentration MSD						NS	50.0	50.0	50.0	50.0	50.0	50.0
	Percent Recovery MS						**NA**	**91%**	**90%**	**48%**	**94%**	**91%**	**126% &**
	Percent Recovery MSD						**NA**	**85%**	**100%**	**104%**	**116%**	**96%**	**118%**
	RPD							**7%**	**10%**	**73% &**	**21%**	**5%**	**6%**
Laboratory Duplicate Results													
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	1/21/2005	2/18/2005	18.6 U	**7.31**	0.429 U	0.183 U	0.754 U	0.314 U	0.240 U
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	1/21/2005	2/18/2005	18.6 U	**7.67**	**1.24**	0.183 U	0.754 U	0.314 U	0.240 U
	RPD						**NA**	**5%**	**NA**	**NA**	**NA**	**NA**	**NA**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Gorst Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Description	Event	Collection Date	PCB101 (ng/L)	PCB077 (ng/L)	PCB118 (ng/L)	PCB153 (ng/L)	PCB105 (ng/L)	PCB138 (ng/L)	PCB126 (ng/L)	PCB187 (ng/L)	PCB128 (ng/L)
LABORATORY REPORTING LIMIT (RL)					**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**
Blanks													
Method Blank (1)	23182 Blank A	--		--	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Method Blank (2)	23182 Blank B	--		--	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Method Blank (3)	23182 Blank C	--		--	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Blank Spike Results													
Blank	23182 Blank A	--		--	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Blank Spike A	23182 Blank Spike A	--		--	**65.2**	**63.7**	**60.1**	**66.2**	**64.6**	**55.3**	**69.3**	**67.2**	**66.6**
	Spike Concentration				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	Percent Recovery A				**130% &**	**127% &**	**120%**	**132% &**	**129% &**	**111%**	**139% &**	**134% &**	**133% &**
Blank	23182 Blank B	--		--	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Blank Spike B	23182 Blank Spike B	--		--	**44.7**	**42.3**	**45.8**	**47.3**	**48.8**	**40.8**	**47.1**	**44.8**	**45.5**
	Spike Concentration				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	Percent Recovery B				**89%**	**85%**	**92%**	**95%**	**98%**	**82%**	**94%**	**90%**	**91%**
Blank	23182 Blank C	--		--	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Blank Spike C	23182 Blank Spike C	--		--	**28.5**	**24.4**	**26.6**	**29.5**	**28.1**	**24.3**	**29.0**	**29.0**	**23.6**
Blank Spike D	23182 Blank Spike D	--		--	**25.2**	**22.8**	**24.3**	**25.9**	**25.4**	**22.6**	**25.5**	**25.1**	**26.8**
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery C				**114%**	**97%**	**107%**	**118%**	**112%**	**97%**	**116%**	**116%**	**95%**
	Percent Recovery D				**101%**	**91%**	**97%**	**104%**	**101%**	**90%**	**102%**	**100%**	**107%**
MATRIX SPIKE RESULTS													
2318-63	T1103	AC	Storm 1	01/17/05	0.123 U	0.142 U	0.148	0.110 U	0.110 U	0.116 U	0.239 U	0.232 U	0.187 U
2318-63 Spk A	T1103 MS	AC		01/17/05	**59.9**	**56.8**	**55.3**	**60.4**	**60.4**	**50.9**	**64.8**	**59.0**	**63.0**
2318-63 Spk B	T1103 MSD	AC		01/17/05	**59.6**	**50.4**	**52.7**	**61.4**	**60.1**	**54.0**	**60.2**	**59.9**	**50.3**
	Spike Concentration MS				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	Spike Concentration MSD				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	Percent Recovery MS				**120%**	**114%**	**111%**	**121% &**	**121% &**	**102%**	**130% &**	**118%**	**126% &**
	Percent Recovery MSD				**119%**	**101%**	**105%**	**123% &**	**120%**	**108%**	**120%**	**120%**	**101%**
	RPD				**0%**	**12%**	**5%**	**2%**	**1%**	**6%**	**7%**	**2%**	**22%**
Laboratory Duplicate Results													
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	0.109 U	0.126 U	0.131 U	0.097 U	0.097 U	**1.89**	0.211 U	0.206 U	0.166 U
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	0.109 U	0.126 U	0.131 U	0.097 U	0.097 U	**1.56**	0.211 U	0.206 U	0.166 U
	RPD				**NA**	**NA**	**NA**	**NA**	**NA**	**19%**	**NA**	**NA**	**NA**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Gorst Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Description	Event	Collection Date	PCB200 (ng/L)	PCB180 (ng/L)	PCB170 (ng/L)	PCB195 (ng/L)	Surrogate Recoveries PCB103 % Recovery	Surrogate Recoveries PCB198 % Recovery
LABORATORY REPORTING LIMIT (RL)					**2**	**2**	**2**	**2**		
Blanks										
Method Blank (1)	23182 Blank A	--		--	0.40 U	0.32 U	0.35 U	1.12 U	86%	138% #
Method Blank (2)	23182 Blank B	--		--	0.40 U	0.32 U	0.35 U	1.12 U	87%	129% #
Method Blank (3)	23182 Blank C	--		--	0.40 U	0.32 U	0.35 U	1.12 U	73%	86%
Blank Spike Results										
Blank	23182 Blank A	--		--	0.40 U	0.32 U	0.35 U	1.12 U	86%	138% #
Blank Spike A	23182 Blank Spike A	--		--	**67.4**	**67.5**	**58.4**	**61.3**	93%	156% #
	Spike Concentration				50.0	50.0	50.0	50.0		
	Percent Recovery A				**135% &**	**135% &**	**117%**	**123% &**		
Blank	23182 Blank B	--		--	0.40 U	0.32 U	0.35 U	1.12 U	87%	129% #
Blank Spike B	23182 Blank Spike B	--		--	**43.8**	**40.9**	**39.6**	**43.4**	79%	114%
	Spike Concentration				50.0	50.0	50.0	50.0		
	Percent Recovery B				**88%**	**82%**	**79%**	**87%**		
Blank	23182 Blank C	--		--	0.40 U	0.32 U	0.35 U	1.12 U	73%	86%
Blank Spike C	23182 Blank Spike C	--		--	**28.3**	**21.1**	**23.7**	**26.1**	71%	92%
Blank Spike D	23182 Blank Spike D	--		--	**26.1**	**19.7**	**22.7**	**24.8**	66%	89%
	Spike Concentration				25.0	25.0	25.0	25.0		
	Percent Recovery C				**113%**	**84%**	**95%**	**104%**		
	Percent Recovery D				**105%**	**79%**	**91%**	**99%**		
MATRIX SPIKE RESULTS										
2318-63	T1103	AC	Storm 1	01/17/05	0.258 U	0.206 U	0.226 U	0.723 U	80%	129% #
2318-63 Spk A	T1103 MS	AC		01/17/05	**61.1**	**59.0**	**56.9**	**58.1**	108%	163% #
2318-63 Spk B	T1103 MSD	AC		01/17/05	**60.7**	**52.5**	**56.5**	**59.5**	103%	142% #
	Spike Concentration MS				50.0	50.0	50.0	50.0		
	Spike Concentration MSD				50.0	50.0	50.0	50.0		
	Percent Recovery MS				**122% &**	**118%**	**114%**	**116%**		
	Percent Recovery MSD				**121% &**	**105%**	**113%**	**119%**		
	RPD				**1%**	**12%**	**1%**	**2%**		
Laboratory Duplicate Results										
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	0.229 U	0.183 U	0.200 U	0.640 U	72%	116%
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	0.229 U	0.183 U	0.200 U	0.640 U	66%	108%
	RPD				**NA**	**NA**	**NA**	**NA**		

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Sinclair Inlet Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Aroclor 1268 (ng/L)	PCB008 (ng/L)	PCB018 (ng/L)	PCB028 (ng/L)	PCB052 (ng/L)	PCB044 (ng/L)	PCB066 (ng/L)
LABORATORY REPORTING LIMIT (RL)							**40**	**2**	**2**	**2**	**2**	**2**	**2**
Blanks													
Method Blank (1)	23183 Blank A	--	Storm 1	--	03/04/05	3/23/2005	32.6 U	1.15 U	**5.21**	0.32 U	1.32 U	0.55 U	0.42 U
Method Blank (2)	23183 Blank B	--	Storm 1	--	03/04/05	3/23/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
	Mean Blank								***2.61***				
	10x Mean Blank								***26.1***				
Method Blank (3)	23184 blk 1	--	Storm 2	--	03/23/05	4/30/2005	32.6 U	**2.86**	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
Method Blank (4)	23184 blk 2	--	Storm 2	--	03/23/05	4/30/2005	32.6 U	**1.22** J	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
	Mean Blank							***1.43*** *J*					
	10x Mean Blank												
Blank Spike Results													
Blank	23183 Blank B	--	Storm 1	--	03/04/05	03/23/05	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
Blank Spike A	23181 Blank Spike A	--	Storm 1	--	03/04/05	03/23/05	32.6 U	**20.4**	**21.1**	**17.5**	**20.4**	**19.4**	**31.4**
Blank Spike B	23181 Blank Spike B	--	Storm 1	--	03/04/05	03/24/05	32.6 U	**19.4**	**19.8**	**20.1**	**19.1**	**18.8**	**22.6**
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery A						**NA**	**82%**	**84%**	**70%**	**81%**	**78%**	**126% &**
	Percent Recovery B						**NA**	**78%**	**79%**	**81%**	**77%**	**75%**	**90%**
Blank	23184 blk 2	--	Storm 2	--	03/23/05		32.6 U	**1.22** J	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
Blank Spike A	23184 Blank Spike A	--	Storm 2	--	03/23/05	5/1/2005	32.6 U	**26.6**	**30.6**	**29.2**	**27.4**	**29.1**	**30.7**
Blank Spike B	23184 Blank Spike B	--	Storm 2	--	03/23/05	5/1/2005	32.6 U	**26.7**	**32.3**	**16.7**	**25.3**	**26.3**	**28.6**
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery A						**NA**	**101%**	**122% &**	**117%**	**110%**	**116%**	**123% &**
	Percent Recovery B						**NA**	**102%**	**129% &**	**67%**	**101%**	**105%**	**115%**
MATRIX SPIKE RESULTS													
2318-234	T1202	B-ST28	Storm 1	03/01/05	03/04/05	03/24/05	28.3 U	1.00 U	0.652 U	0.278 U	1.15 U	0.478 U	0.365 U
2318-234 Spk A	T1202	B-ST28	Storm 1	03/01/05	03/04/05	03/24/05	28.3 U	**49.4**	**14.9**	**14.5**	**15.5**	**13.5**	**24.1**
2318-234 Spk B	T1202	B-ST28	Storm 1	03/01/05	03/04/05	03/24/05	28.3 U	**14.1**	**22.6**	**20.2**	**23.8**	**19.5**	**19.5**
	Spike Concentration MS						NS	21.7	21.7	21.7	21.7	21.7	21.7
	Spike Concentration MSD						NS	21.7	21.7	21.7	21.7	21.7	21.7
	Percent Recovery MS						**NA**	**228% &**	**68%**	**67%**	**71%**	**62%**	**111%**
	Percent Recovery MSD						**NA**	**65%**	**104%**	**93%**	**110%**	**90%**	**90%**
	RPD							**111% &**	**41% &**	**33% &**	**42% &**	**36% &**	**21%**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Sinclair Inlet Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Aroclor 1268 (ng/L)	PCB008 (ng/L)	PCB018 (ng/L)	PCB028 (ng/L)	PCB052 (ng/L)	PCB044 (ng/L)	PCB066 (ng/L)
MATRIX SPIKE RESULTS, cont.													
2318-312	T1212	PSNS124	Storm 2	03/20/05	03/23/05	5/2/2005	36.2 U	1.28 U	0.83 U	0.36 U	1.47 U	0.61 U	0.47 U
2318-312 Spk A	Spike A	--	--	--	03/23/05	5/2/2005	36.2 U	**30.1**	**30.7**	**17.8**	**28.5**	**30.9**	**36.0**
2318-312 Spk B	Spike B	--	--	--	03/23/05	5/2/2005	36.2 U	**31.1**	**30.6**	**18.3**	**28.8**	**31.2**	**37.5**
	Spike Concentration MS						NS	27.8	27.8	27.8	27.8	27.8	27.8
	Spike Concentration MSD						NS	27.8	27.8	27.8	27.8	27.8	27.8
	Percent Recovery MS						**NA**	**108%**	**111%**	**64%**	**102%**	**111%**	**129% &**
	Percent Recovery MSD						**NA**	**112%**	**110%**	**66%**	**104%**	**112%**	**135% &**
	RPD							**3%**	**0%**	**2%**	**1%**	**1%**	**4%**
Laboratory Duplicate Results													
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	03/04/05	03/24/05	20.2 U	**5.75**	0.466 U	0.199 U	0.820 U	0.342 U	0.261 U
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	03/04/05	03/24/05	20.2 U	**5.24**	0.466 U	0.199 U	0.820 U	0.342 U	0.261 U
	RPD						**NA**	**9%**	**NA**	**NA**	**NA**	**NA**	**NA**
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	03/23/05	5/1/2005	27.6 U	0.97 U	0.64 U	0.27 U	1.12 U	0.47 U	0.36 U
2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	03/23/05	5/2/2005	27.6 U	0.97 U	0.64 U	0.27 U	1.12 U	0.47 U	0.36 U
	RPD						**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	PCB101 (ng/L)	PCB077 (ng/L)	PCB118 (ng/L)	PCB153 (ng/L)	PCB105 (ng/L)	PCB138 (ng/L)	PCB126 (ng/L)	PCB187 (ng/L)	PCB128 (ng/L)
LABORATORY REPORTING LIMIT (RL)					**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**
Blanks													
Method Blank (1)	23183 Blank A	--	Storm 1	--	0.19 U	0.22 U	0.23 U	**2.47**	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Method Blank (2)	23183 Blank B	--	Storm 1	--	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
	Mean Blank							***1.23*** *J*					
	10x Mean Blank												
Method Blank (3)	23184 blk 1	--	Storm 2	--	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Method Blank (4)	23184 blk 2	--	Storm 2	--	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	**0.90** J	0.29 U
	Mean Blank											***0.45*** *J*	
	10x Mean Blank												
Blank Spike Results													
Blank	23183 Blank B	--	Storm 1	--	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Blank Spike A	23181 Blank Spike A	--	Storm 1	--	**28.3**	**26.0**	**31.9**	**31.6**	**34.0**	**30.1**	**34.7**	**32.5**	**31.2**
Blank Spike B	23181 Blank Spike B	--	Storm 1	--	**21.4**	**20.2**	**21.5**	**22.9**	**21.9**	**20.2**	**24.3**	**23.2**	**21.4**
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery A				**113%**	**104%**	**127% &**	**126% &**	**136% &**	**120%**	**139% &**	**130% &**	**125% &**
	Percent Recovery B				**86%**	**81%**	**86%**	**92%**	**88%**	**81%**	**97%**	**93%**	**86%**
Blank	23184 blk 2	--	Storm 2	--	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	**0.90** J	0.29 U
Blank Spike A	23184 Blank Spike A	--	Storm 2	--	**30.3**	**28.0**	**29.0**	**31.7**	**31.5**	**31.9**	**33.5**	**30.3**	**28.2**
Blank Spike B	23184 Blank Spike B	--	Storm 2	--	**28.5**	**22.8**	**25.2**	**27.3**	**26.9**	**29.2**	**30.4**	**27.5**	**24.6**
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery A				**121% &**	**112%**	**116%**	**127% &**	**126% &**	**127% &**	**134% &**	**118%**	**113%**
	Percent Recovery B				**114%**	**91%**	**101%**	**109%**	**108%**	**117%**	**122% &**	**106%**	**99%**
MATRIX SPIKE RESULTS													
2318-234	T1202	B-ST28	Storm 1	03/01/05	0.165 U	0.191 U	0.200 U	0.148 U	0.148 U	0.157 U	0.322 U	0.313 U	0.252 U
2318-234 Spk A	T1202	B-ST28	Storm 1	03/01/05	**24.3**	**15.5**	**20.2**	**20.7**	**19.2**	**18.4**	**20.8**	**21.6**	**17.5**
2318-234 Spk B	T1202	B-ST28	Storm 1	03/01/05	**37.8**	**6.57**	**19.1**	**28.2**	**24.7**	**20.3**	**23.7**	**27.3**	**21.5**
	Spike Concentration MS				21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
	Spike Concentration MSD				21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
	Percent Recovery MS				**112%**	**71%**	**93%**	**96%**	**89%**	**85%**	**96%**	**100%**	**80%**
	Percent Recovery MSD				**174% &**	**30% &**	**88%**	**130% &**	**114%**	**94%**	**109%**	**126% &**	**99%**
	RPD				**43% &**	**81% &**	**6%**	**31% &**	**25%**	**10%**	**13%**	**23%**	**21%**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Sinclair Inlet Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	PCB101 (ng/L)	PCB077 (ng/L)	PCB118 (ng/L)	PCB153 (ng/L)	PCB105 (ng/L)	PCB138 (ng/L)	PCB126 (ng/L)	PCB187 (ng/L)	PCB128 (ng/L)
MATRIX SPIKE RESULTS, cont.													
2318-312	T1212	PSNS124	Storm 2	03/20/05	**20.5**	0.24 U	**11.2**	**35.8**	**6.98**	**45.4**	0.41 U	**17.2**	**2.35**
2318-312 Spk A	Spike A	--	--	--	**33.0**	**29.2**	**29.2**	**34.1**	**31.2**	**34.2**	**29.9**	**31.8**	**19.6**
2318-312 Spk B	Spike B	--	--	--	**34.2**	**31.2**	**29.4**	**33.1**	**33.0**	**35.8**	**30.0**	**31.6**	**20.2**
	Spike Concentration MS				27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
	Spike Concentration MSD				27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
	Percent Recovery MS				**45%**	**105%**	**65%**	**NC**	**87%**	**40%**	**108%**	**53%**	**62%**
	Percent Recovery MSD				**49%**	**112%**	**65%**	**NC**	**94%**	**35% &**	**108%**	**52%**	**64%**
	RPD				**9%**	**7%**	**1%**		**7%**	**16%**	**0%**	**2%**	**3%**
Laboratory Duplicate Results													
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	0.118 U	0.137 U	**1.80** J	0.106 U	0.106 U	0.112 U	0.230 U	0.224 U	**0.499** J
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	0.118 U	0.137 U	**1.40** J	0.106 U	0.106 U	0.112 U	0.230 U	0.224 U	**0.346** J
	RPD				**NA**	**NA**	**25%**	**NA**	**NA**	**NA**	**NA**	**NA**	**36% &**
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	0.16 U	0.19 U	**4.30**	**9.30**	**7.46**	**11.1**	0.31 U	0.31 U	**1.36** J
2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	0.16 U	0.19 U	**2.30**	**6.46**	**4.57**	**4.55**	0.31 U	0.31 U	0.25 U
	RPD				**NA**	**NA**	**61% &**	**36% &**	**48% &**	**84% &**	**NA**	**NA**	**NA**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Sinclair Inlet Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	PCB200 (ng/L)	PCB180 (ng/L)	PCB170 (ng/L)	PCB195 (ng/L)	PCB103 % Recovery	PCB198 % Recovery
					Surrogate Recoveries					
LABORATORY REPORTING LIMIT (RL)					**2**	**2**	**2**	**2**		
Blanks										
Method Blank (1)	23183 Blank A	--	Storm 1	--	**3.86**	0.32 U	0.35 U	1.12 U	56%	84%
Method Blank (2)	23183 Blank B	--	Storm 1	--	0.40 U	0.32 U	0.35 U	1.12 U	78%	97%
	Mean Blank				***1.93 J***					
	10x Mean Blank									
Method Blank (3)	23184 blk 1	--	Storm 2	--	0.40 U	0.32 U	0.35 U	1.12 U	94%	90%
Method Blank (4)	23184 blk 2	--	Storm 2	--	0.40 U	0.32 U	0.35 U	1.12 U	115%	100%
	Mean Blank									
	10x Mean Blank									
Blank Spike Results										
Blank	23183 Blank B	--	Storm 1	--	0.40 U	0.32 U	0.35 U	1.12 U	78%	97%
Blank Spike A	23181 Blank Spike A	--	Storm 1	--	**30.5**	**19.4**	**26.5**	**30.0**	68%	122% #
Blank Spike B	23181 Blank Spike B	--	Storm 1	--	**21.4**	**14.7**	**21.1**	**23.3**	81%	92%
	Spike Concentration				25.0	25.0	25.0	25.0		
	Percent Recovery A				**122% &**	**78%**	**106%**	**120%**		
	Percent Recovery B				**85%**	**59%**	**84%**	**93%**		
Blank	23184 blk 2	--	Storm 2	--	0.40 U	0.32 U	0.35 U	1.12 U	115%	100%
Blank Spike A	23184 Blank Spike A	--	Storm 2	--	**29.2**	**22.4**	**27.6**	**29.0**	113%	118%
Blank Spike B	23184 Blank Spike B	--	Storm 2	--	**28.2**	**40.4**	**24.4**	**25.6**	116%	99%
	Spike Concentration				25.0	25.0	25.0	25.0		
	Percent Recovery A				**117%**	**90%**	**110%**	**116%**		
	Percent Recovery B				**113%**	**162% &**	**98%**	**103%**		
MATRIX SPIKE RESULTS										
2318-234	T1202	B-ST28	Storm 1	03/01/05	0.348 U	0.278 U	0.304 U	**1.13**	73%	93%
2318-234 Spk A	T1202	B-ST28	Storm 1	03/01/05	**19.4**	**12.5**	**15.4**	**19.1**	60%	77%
2318-234 Spk B	T1202	B-ST28	Storm 1	03/01/05	**25.8**	**22.5**	**17.1**	**21.8**	68%	93%
	Spike Concentration MS				21.7	21.7	21.7	21.7		
	Spike Concentration MSD				21.7	21.7	21.7	21.7		
	Percent Recovery MS				**89%**	**58%**	**71%**	**83%**		
	Percent Recovery MSD				**119%**	**104%**	**79%**	**95%**		
	RPD				**28%**	**57% &**	**11%**	**14%**		

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Sinclair Inlet Stormwater
PCB/Aroclor 1268 Results for Water Samples

					Surrogate Recoveries					
					PCB200	**PCB180**	**PCB170**	**PCB195**	**PCB103**	**PCB198**
MSL Sample ID	**Client ID**	**Site Description**	**Event**	**Collection Date**	(ng/L)	(ng/L)	(ng/L)	(ng/L)	% Recovery	% Recovery
MATRIX SPIKE RESULTS, cont.										
2318-312	T1212	PSNS124	Storm 2	03/20/05	**6.69**	0.36 U	**16.4**	**4.63**	100%	101%
2318-312 Spk A	Spike A	--	--	--	**28.6**	**25.2**	**25.5**	**29.0**	83%	99%
2318-312 Spk B	Spike B	--	--	--	**30.7**	**47.6**	**26.2**	**29.3**	89%	106%
	Spike Concentration MS				27.8	27.8	27.8	27.8		
	Spike Concentration MSD				27.8	27.8	27.8	27.8		
	Percent Recovery MS				**79%**	**91%**	**33% &**	**88%**		
	Percent Recovery MSD				**86%**	**171% &**	**35% &**	**89%**		
	RPD				**9%**	**61% &**	**7%**	**1%**		
Laboratory Duplicate Results										
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	0.248 U	0.199 U	0.217 U	**1.86** J	62%	79%
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	0.248 U	0.199 U	0.217 U	**1.43** J	53%	65%
	RPD				**NA**	**NA**	**NA**	**27%**		
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	**0.96** J	0.27 U	0.30 U	0.95 U	98%	110%
2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	0.34 U	0.27 U	0.30 U	0.95 U	93%	85%
	RPD				**NA**	**NA**	**NA**	**0%**		

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Aroclor 1268 (ng/L)	PCB008 (ng/L)	PCB018 (ng/L)	PCB028 (ng/L)	PCB052 (ng/L)	PCB044 (ng/L)
LABORATORY REPORTING LIMIT (RL)							**40**	**2**	**2**	**2**	**2**	**2**
Blanks												
Method Blank (1)	23185 blk	--	Storm 1	--	3/29/2005	5/1/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U
Method Blank (2)	23186 blk	--	Storm 2/wet season	--	4/5/2005	5/1/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U
Method Blank (3)	23187 blk	--	Make-up Storm	--	4/13/2005	5/1/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U
Blank Spike Results												
Blank	23185 blk	--	Storm 1	--	3/29/2005	5/1/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U
Blank Spike A	23185 blk spk A	--	Storm 1	--	3/29/2005	5/1/2005	32.6 U	**24.8**	**30.9**	**17.1**	**25.9**	**25.4**
Blank Spike B	23185 blk spk B	--	Storm 1	--	3/29/2005	5/1/2005	32.6 U	**26.5**	**31.8**	**32.9**	**26.2**	**28.0**
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0
	Percent Recovery A						**NA**	**99%**	**124% &**	**68%**	**104%**	**102%**
	Percent Recovery B						**NA**	**106%**	**127% &**	**132%**	**105%**	**112%**
Blank	23186 blk	--	Storm 2/wet season	--	4/5/2005	5/1/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U
Blank Spike A	23186 blk spk A	--	Storm 2/wet season	--	4/5/2005	5/1/2005	32.6 U	**13.8**	**17.4**	**15.6**	**14.9**	**15.8**
Blank Spike B	23186 blk spk B	--	Storm 2/wet season	--	4/5/2005	5/1/2005	32.6 U	**12.8**	**14.7**	**14.3**	**13.4**	**14.3**
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0
	Percent Recovery A						**NA**	**55%**	**70%**	**62%**	**60%**	**63%**
	Percent Recovery B						**NA**	**51%**	**59%**	**57%**	**54%**	**57%**
Blank	23187 blk	--	Make-up Storm	--	4/13/2005	5/1/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U
Blank Spike A	23187 blk spk	--	Make-up Storm	--	4/13/2005	5/1/2005	32.6 U	**31.0**	**34.6**	**34.7**	**31.8**	**31.7**
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0
	Percent Recovery C						**NA**	**124% &**	**138% &**	**139% &**	**127% &**	**127% &**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	Aroclor 1268 (ng/L)	PCB008 (ng/L)	PCB018 (ng/L)	PCB028 (ng/L)	PCB052 (ng/L)	PCB044 (ng/L)
MATRIX SPIKE RESULTS												
2318-386	T1304	CH	Storm 1	03/27/05	3/29/2005	5/2/2005	29.4 U	1.04 U	0.68 U	0.29 U	1.19 U	0.50 U
2318-386 Spk A	Spike A	--	Storm 1	--	3/29/2005	5/3/2005	32.6 U	**33.2**	**34.2**	**32.5**	**28.0**	**28.6**
2318-386 Spk B	Spike B	--	Storm 1	--	3/29/2005	5/3/2005	32.6 U	**33.3**	**31.3**	**29.9**	**26.8**	**27.1**
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0
	Percent Recovery MS						**NA**	**133% &**	**137% &**	**130% &**	**112%**	**114%**
	Percent Recovery MSD						**NA**	**133% &**	**125% &**	**120%**	**107%**	**108%**
	RPD							**0%**	**9%**	**8%**	**5%**	**5%**
2318-445	T1313	SW6	Storm 2/wet season	04/01/05	4/5/2005	5/3/2005	26.4 U	0.93 U	0.61 U	0.26 U	1.07 U	0.45 U
2318-445 Spk A	Spike A	--	Storm 2/wet season	--	4/5/2005	5/3/2005	32.6 U	**13.9**	**19.0**	**9.37**	**15.8**	**20.3**
2318-445 Spk B	Spike B	--	Storm 2/wet season	--	4/5/2005	5/3/2005	32.6 U	**12.6**	**18.1**	**10.6**	**17.2**	**22.0**
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0
	Percent Recovery MS						**NA**	**56%**	**76%**	**37% &**	**63%**	**81%**
	Percent Recovery MSD						**NA**	**50%**	**73%**	**42%**	**69%**	**88%**
	RPD							**10%**	**4%**	**12%**	**8%**	**8%**
Laboratory Duplicate Results												
2318-382 R-1	T1302	CC	Storm 1	03/27/05	3/29/2005	5/2/2005	23.3 U	0.82 U	0.54 U	0.23 U	0.94 U	0.39 U
2318-382 R-2	T1302	CC	Storm 1	03/27/05	3/29/2005	5/2/2005	23.3 U	0.82 U	0.54 U	0.23 U	0.94 U	0.39 U
	RPD						**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
2318-446 R-1	T1314	B-ST12	Storm 2/wet season	04/01/05	4/5/2005	5/3/2005	24.6 U	0.87 U	0.57 U	0.24 U	1.00 U	0.42 U
2318-446 R-2	T1314	B-ST12	Storm 2/wet season	04/01/05	4/5/2005	5/3/2005	24.6 U	0.87 U	0.57 U	0.24 U	1.00 U	0.42 U
	RPD						**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	PCB066 (ng/L)	PCB101 (ng/L)	PCB077 (ng/L)	PCB118 (ng/L)	PCB153 (ng/L)	PCB105 (ng/L)	PCB138 (ng/L)	PCB126 (ng/L)
LABORATORY REPORTING LIMIT (RL)					**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**
Blanks												
Method Blank (1)	23185 blk	--	Storm 1	--	0.42 U	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U
Method Blank (2)	23186 blk	--	Storm 2/wet season	--	0.42 U	**1.35** J	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U
Method Blank (3)	23187 blk	--	Make-up Storm	--	0.42 U	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U
Blank Spike Results												
Blank	23185 blk	--	Storm 1	--	0.42 U	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U
Blank Spike A	23185 blk spk A	--	Storm 1	--	**28.0**	**27.0**	**25.4**	**26.1**	**27.9**	**26.9**	**29.4**	**28.8**
Blank Spike B	23185 blk spk B	--	Storm 1	--	**29.7**	**27.8**	**27.9**	**27.2**	**30.0**	**27.4**	**30.8**	**30.7**
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery A				**112%**	**108%**	**102%**	**104%**	**112%**	**108%**	**118%**	**115%**
	Percent Recovery B				**119%**	**111%**	**112%**	**109%**	**120%**	**110%**	**123% &**	**123% &**
Blank	23186 blk	--	Storm 2/wet season	--	0.42 U	**1.35** J	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U
Blank Spike A	23186 blk spk A	--	Storm 2/wet season	--	**16.6**	**16.4**	**14.8**	**15.3**	**16.8**	**29.9**	**31.9**	**33.2**
Blank Spike B	23186 blk spk B	--	Storm 2/wet season	--	**15.2**	**14.8**	**14.4**	**14.8**	**15.7**	**28.0**	**29.2**	**30.5**
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery A				**66%**	**60%**	**59%**	**61%**	**67%**	**120%**	**127% &**	**133% &**
	Percent Recovery B				**61%**	**54%**	**58%**	**59%**	**63%**	**112%**	**117%**	**122% &**
Blank	23187 blk	--	Make-up Storm	--	0.42 U	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U
Blank Spike A	23187 blk spk	--	Make-up Storm	--	**33.5**	**33.7**	**34.7**	**32.4**	**37.5**	**34.2**	**37.1**	**37.2**
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery C				**134% &**	**135% &**	**139% &**	**130% &**	**150% &**	**137% &**	**148% &**	**149% &**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	PCB066 (ng/L)	PCB101 (ng/L)	PCB077 (ng/L)	PCB118 (ng/L)	PCB153 (ng/L)	PCB105 (ng/L)	PCB138 (ng/L)	PCB126 (ng/L)
MATRIX SPIKE RESULTS												
2318-386	T1304	CH	Storm 1	03/27/05	0.38 U	0.17 U	0.20 U	0.21 U	0.15 U	0.15 U	0.16 U	0.33 U
2318-386 Spk A	Spike A	--	Storm 1	--	**29.8**	**29.9**	**31.0**	**28.2**	**30.3**	**33.5**	**36.6**	**34.3**
2318-386 Spk B	Spike B	--	Storm 1	--	**38.6**	**28.4**	**26.4**	**26.8**	**28.7**	**29.6**	**30.6**	**28.2**
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery MS				**119%**	**120%**	**124% &**	**113%**	**121% &**	**134% &**	**147% &**	**137% &**
	Percent Recovery MSD				**154% &**	**114%**	**106%**	**107%**	**115%**	**119%**	**122% &**	**113%**
	RPD				**26%**	**5%**	**16%**	**5%**	**6%**	**12%**	**18%**	**19%**
2318-445	T1313	SW6	Storm 2/wet season	04/01/05	0.34 U	**0.34** J	0.18 U	0.19 U	0.14 U	0.14 U	0.15 U	0.30 U
2318-445 Spk A	Spike A	--	Storm 2/wet season	--	**18.1**	**16.4**	**14.6**	**15.4**	**16.1**	**30.6**	**30.0**	**28.2**
2318-445 Spk B	Spike B	--	Storm 2/wet season	--	**20.6**	**18.0**	**17.2**	**16.7**	**17.5**	**31.9**	**31.8**	**33.3**
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery MS				**73%**	**64%**	**58%**	**61%**	**64%**	**123% &**	**120%**	**113%**
	Percent Recovery MSD				**82%**	**71%**	**69%**	**67%**	**70%**	**127% &**	**127% &**	**133% &**
	RPD				**13%**	**10%**	**17%**	**8%**	**9%**	**4%**	**6%**	**17%**
Laboratory Duplicate Results												
2318-382 R-1	T1302	CC	Storm 1	03/27/05	0.30 U	**0.27** J	0.16 U	0.16 U	0.12 U	0.12 U	0.13 U	0.26 U
2318-382 R-2	T1302	CC	Storm 1	03/27/05	0.30 U	0.14 U	0.16 U	0.16 U	0.12 U	0.12 U	0.13 U	0.26 U
	RPD				**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
2318-446 R-1	T1314	B-ST12	Storm 2/wet season	04/01/05	0.32 U	0.14 U	**0.42** J	0.17 U	0.13 U	**0.81** J	0.14 U	0.28 U
2318-446 R-2	T1314	B-ST12	Storm 2/wet season	04/01/05	0.32 U	0.14 U	**0.44** J	0.17 U	0.13 U	0.13 U	0.14 U	0.28 U
	RPD				**NA**	**NA**	**4%**	**NA**	**NA**	**NA**	**NA**	**NA**

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	PCB187 (ng/L)	PCB128 (ng/L)	PCB200 (ng/L)	PCB180 (ng/L)	PCB170 (ng/L)	PCB195 (ng/L)	Surrogate Recoveries PCB103 % Recovery	Surrogate Recoveries PCB198 % Recovery
LABORATORY REPORTING LIMIT (RL)					**2**	**2**	**2**	**2**	**2**	**2**		
Blanks												
Method Blank (1)	23185 blk	--	Storm 1	--	0.36 U	0.29 U	0.40 U	0.32 U	0.35 U	1.12 U	97%	113%
Method Blank (2)	23186 blk	--	Storm 2/wet season	--	**1.71** J	0.29 U	0.40 U	0.32 U	0.35 U	1.12 U	96%	105%
Method Blank (3)	23187 blk	--	Make-up Storm	--	0.36 U	0.29 U	0.40 U	0.32 U	0.35 U	1.12 U	88%	102%
Blank Spike Results												
Blank	23185 blk	--	Storm 1	--	0.36 U	0.29 U	0.40 U	0.32 U	0.35 U	1.12 U	97%	113%
Blank Spike A	23185 blk spk A	--	Storm 1	--	**27.5**	**24.8**	**26.7**	**19.8**	**24.5**	**25.8**	108%	100%
Blank Spike B	23185 blk spk B	--	Storm 1	--	**29.1**	**26.6**	**28.2**	**45.3**	**26.4**	**28.0**	93%	109%
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0		
	Percent Recovery A				**110%**	**99%**	**107%**	**79%**	**98%**	**103%**		
	Percent Recovery B				**117%**	**107%**	**113%**	**181%**	**105%**	**112%**		
Blank	23186 blk	--	Storm 2/wet season	--	**1.71** J	0.29 U	0.40 U	0.32 U	0.35 U	1.12 U	96%	105%
Blank Spike A	23186 blk spk A	--	Storm 2/wet season	--	**29.8**	**27.6**	**31.6**	**39.4**	**26.8**	**28.2**	61%	119%
Blank Spike B	23186 blk spk B	--	Storm 2/wet season	--	**27.6**	**25.7**	**26.8**	**20.1**	**24.1**	**26.6**	47%	94%
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0		
	Percent Recovery A				**112%**	**110%**	**126% &**	**158% &**	**107%**	**113%**		
	Percent Recovery B				**104%**	**103%**	**107%**	**80%**	**97%**	**106%**		
Blank	23187 blk	--	Make-up Storm	--	0.36 U	0.29 U	0.40 U	0.32 U	0.35 U	1.12 U	88%	102%
Blank Spike A	23187 blk spk	--	Make-up Storm	--	**35.0**	**32.6**	**33.9**	**43.8**	**31.0**	**32.9**	104%	115%
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0		
	Percent Recovery C				**140% &**	**130% &**	**135% &**	**175% &**	**124% &**	**131% &**		

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SINCLAIR AND DYES INLET 2005 STORMWATER
QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PCB/Aroclor 1268 Results for Water Samples

MSL Sample ID	Client ID	Site Description	Event	Collection Date	PCB187 (ng/L)	PCB128 (ng/L)	PCB200 (ng/L)	PCB180 (ng/L)	PCB170 (ng/L)	PCB195 (ng/L)	Surrogate Recoveries PCB103 % Recovery	Surrogate Recoveries PCB198 % Recovery
MATRIX SPIKE RESULTS												
2318-386	T1304	CH	Storm 1	03/27/05	**0.68** J	0.26 U	0.36 U	0.29 U	0.32 U	1.01 U	85%	91%
2318-386 Spk A	Spike A	--	Storm 1	--	**34.0**	**30.7**	**33.2**	**45.7**	**27.4**	**27.5**	93%	101%
2318-386 Spk B	Spike B	--	Storm 1	--	**27.3**	**30.2**	**27.3**	**22.4**	**25.3**	**27.5**	96%	106%
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0		
	Percent Recovery MS				**133% &**	**123% &**	**133% &**	**183% &**	**110%**	**110%**		
	Percent Recovery MSD				**106%**	**121% &**	**109%**	**90%**	**101%**	**110%**		
	RPD				**22%**	**2%**	**19%**	**68% &**	**8%**	**0%**		
2318-445	T1313	SW6	Storm 2/wet season	04/01/05	0.29 U	0.23 U	0.32 U	0.26 U	0.28 U	0.91 U	91%	104%
2318-445 Spk A	Spike A	--	Storm 2/wet season	--	**27.6**	**26.3**	**25.4**	**22.8**	**24.1**	**27.0**	52%	105%
2318-445 Spk B	Spike B	--	Storm 2/wet season	--	**30.6**	**27.7**	**30.8**	**23.9**	**26.0**	**28.0**	61%	112%
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0		
	Percent Recovery MS				**110%**	**105%**	**101%**	**91%**	**96%**	**108%**		
	Percent Recovery MSD				**122% &**	**111%**	**123% &**	**96%**	**104%**	**112%**		
	RPD				**10%**	**5%**	**19%**	**5%**	**7%**	**4%**		
Laboratory Duplicate Results												
2318-382 R-1	T1302	CC	Storm 1	03/27/05	0.26 U	0.21 U	0.29 U	0.23 U	0.25 U	0.80 U	95%	112%
2318-382 R-2	T1302	CC	Storm 1	03/27/05	0.26 U	0.21 U	0.29 U	0.23 U	0.25 U	0.80 U	99%	104%
	RPD				**NA**	**NA**	**NA**	**NA**	**NA**	**NA**		
2318-446 R-1	T1314	B-ST12	Storm 2/wet season	04/01/05	0.27 U	0.22 U	0.30 U	0.24 U	0.26 U	0.85 U	102%	100%
2318-446 R-2	T1314	B-ST12	Storm 2/wet season	04/01/05	0.27 U	0.22 U	0.30 U	0.24 U	0.26 U	0.85 U	110%	106%
	RPD				**NA**	**NA**	**NA**	**NA**	**NA**	**NA**		

QA Narratives: 2005 Storm Water Organic Contaminants

- Gorst
- Sinclair Inlet
- Dyes Inlet

QA/QC NARRATIVE

PROJECT: Sinclair and Dyes Inlet Storm Water Study – Storm Season 2005 Gorst Events 1 and 2
PARAMETER: Organics – PAH, Phthalates and PCBs
LABORATORY: Battelle Marine Sciences Laboratory, Sequim, Washington
MATRIX: Storm Water (zero or negligible salinity)

SAMPLE CUSTODY AND PROCESSING: Battelle received storm water samples collected during the 2005 Gorst Events 1 and 2. Samples from Gorst Event 1 were received on 01/18/05. Samples from Gorst Event 2 were received on 01/23/05. All samples were received in good condition. Select samples from each event were composited at MSL by either flow proportioning or equal proportioning of discrete samples.

Samples were assigned a Battelle Central File (CF) identification number (2318) and were entered into Battelle's sample tracking system.

The following lists information on sample receipt and processing activities:

EVENT	Composite Collection Date	Laboratory Arrival Date	Extraction Date	PAH/ Phthalate Analysis Date	PCB Analysis Date
Gorst Storm 1	01/17/05	01/18/05	01/20/05 and 01/21/05	02/16/05	02/18/05 02/19/05
Gorst Storm 2	01/22/05	01/23/05	01/26/05		

QA/QC PROJECT DATA QUALITY OBJECTIVES:

Analyte	Analytical Method	Reporting Limits (ng/L)	MS Range of Recovery	Laboratory Control Sample	Surrogate Spike Recovery
PAH	GC-MS	20	40-120%	40-120%	40-120%
Phthalates	GC-MS	40	40-120%	40-120%	40-120%
PCB Congeners	GC-ECD	2	40-120%	40-120%	40-120%
Aroclor 1268	GC-ECD	40	40-120%	40-120%	40-120%

METHODS: All samples were extracted and analyzed in accordance with the following Battelle methods:

- *MSL-O-010 Extraction and Cleanup of Water for Semivolatile Organics Following the Surrogate Internal Standard Method.*
- *MSL-O-008 Operation and Maintenance of Gas Chromatographs (GC) and Gas Chromatograph/Mass Spectrometer (GC/MS) Systems.*
- *MSL-O-015 Identification and Quantification of Polynuclear Aromatic Hydrocarbons by Gas Chromatography/Mass Spectrometry Following EPA Method 8270B Quality Control Criteria.*
- *MSL-O-016 Analysis of PCBs and Chlorinated Pesticides by Gas Chromatography with Electron Capture Detection Following EPA METHOD 8080A Quality Control Criteria.*

Results are reported as not blank corrected in units of ng/L for each sample.

HOLDING TIMES: Established holding times of 7 days from collection for the extraction procedure and 40 days from extraction for the analyses were achieved for all samples.

DETECTION LIMITS: Detection limits were determined on a per sample basis and data are flagged (U) using sample specific MDLs. Reporting limits (RL) were established based on a low standard concentration and data are flagged (J) to identify concentrations less than the RL but greater than the MDL.

QA/QC NARRATIVE

DATA QUALIFIERS:

U Not detected at or above MDL, sample specific MDL reported
J Concentration less than RL but greater than MDL
E Estimate
& Spiked sample outside control limits of 40-120% recovery; precision <30%
B Sample concentration is <10x blank
* Associated Surrogate recovery exceeds control limit (flag applied to samples)
# Surrogate recovery outside control limits (40-120% - flag applied to surrogate)

METHOD BLANK:

PAHs and Phthalates:
Three method blanks were extracted and analyzed with this batch of samples. Analytes were not detected in the PAH method blanks above the MDL with the exception of dibenz[a,h]anthracene. The two subsequent blanks did not contain detectable dibenz[a,h]anthracene and only one sample (T1103-AC) in the extraction batch contained dibenz[a,h]anthracene at a level greater than the MDL. The data point was flagged.

The three phthalate compounds were detected in the blank. The phthalate data are flagged as estimates and data usage should be limited to research evaluation.

PCBs:
Three method blanks were extracted and analyzed with this batch of samples. Analytes were not detected in the blank above the RL with the exception of PCB052. This congener was not detected above the MDL for any of the samples.

LABORATORY CONTROL SAMPLE/BLANK SPIKE RECOVERY:

PAHs and Phthalates:
Four blank spikes were extracted and analyzed with this batch of samples. Blank spike samples were within the QC criterion of 40-120% for all PAH compounds except the 2-methyl naphthalene (39%, 28%, 36%, and 27%). Two samples contained detectable concentrations of 2-methyl naphthalene. The data are flagged as estimates (E).

Four blank spikes was extracted and analyzed with this batch of samples. Due to the variable method blanks a majority of the blank spikes for the phthalate compounds were outside the QC criterion. The data are all flagged as estimated and data usage should be limited to research evaluation.

PCBs:
Four blank spikes was extracted and analyzed with this batch of samples. The PCB198 surrogate in blank spike A recovered high indicating the sample volume was reduced more than the 1ml anticipated. As a result, the spike recoveries for PCB congeners 066 and greater recovered high. In all cases, the additional blank spikes were within the QC criterion.

MATRIX SPIKE RECOVERY:

PAHs and Phthalates:
Matrix spike (MS) and matrix spike duplicate (MSD) samples were extracted and analyzed with this batch of samples. The percent recoveries for the MS/MSD samples were within the QC criterion of 40-120% for all PAH compounds except one spike for benz[a]anthracene (121%).

The matrix spike recoveries for the phthalate compounds were all outside the QC criterion. The data are all flagged as estimated and data usage should be limited to research evaluation.

QA/QC NARRATIVE

MATRIX SPIKE RECOVERY conti.:

PCBs:
Matrix spike (MS) and matrix spike duplicate (MSD) samples were extracted and analyzed with this batch of samples. PCB congeners were within the QC criterion of 40-120% with the exception of PCB066 (126%), PCB153 (121%, 123%), PCB105 (121%), PCB126 (130%), PCB128 (126%), and PCB200 (122%, 121%). The recoveries were less than 10% outside the criterion and may be attributed to the high surrogate recovery for PCB198. In all cases, expectable blank spikes support the data and these PCB congeners were not detected in the samples above the RL.

LABORATORY PRECISION:

Laboratory precision was expressed as the relative percent difference (RPD) between the matrix spike duplicates and the laboratory duplicates.

PAHs and Phthalates:
The RPD values for the matrix spike duplicate were within the QC criterion for all PAH and phthalate compounds.

The RPD values for the laboratory duplicates were within the QC criterion for all PAH and phthalate compounds with the exception of phenanthrene (77%) and chrysene (76%). The high RPD values may be attributed to the particulate material in the stormwater samples.

PCBs:
The RPD values for the matrix spike duplicate were within the QC criterion for all PCB congeners with the exception of PCB028 (73%).

The RPD values for the laboratory duplicates were within the QC criterion for all PCB congeners detected above the RL.

SURROGATE RECOVERIES:

Surrogates compounds were used to evaluate the recovery of the extraction and clean-up process for the PAHs, phthalates, and PCB congeners.

PAHs and Phthalates:
The percent recoveries for the surrogates were all within the project QC criterion of 40-120% recovery.

PCBs:
The PCB198 surrogate was outside the project QC criterion of 40-120% for three field samples. The impact to the data was negligible as the surrogate recoveries were high, but no PCB congeners were detected in the sample above the RL. The PCB198 surrogate was also outside the QC criterion for two method blanks, one blank spike, and two matrix spikes. In all cases, the alternate surrogate was acceptable.

QA/QC NARRATIVE

PROJECT: Sinclair and Dyes Inlet Storm Water Study – Storm Season 2005 Sinclair Storms 1 and 2
PARAMETER: Organics – PAH, Phthalates and PCBs
LABORATORY: Battelle Marine Sciences Laboratory, Sequim, Washington
MATRIX: Storm Water (zero or negligible salinity)

SAMPLE CUSTODY AND PROCESSING: Battelle received storm water samples collected during the 2005 Sinclair Event Storms 1 and 2. Samples from Sinclair Storm 1 were received on 03/02/05. Samples from Sinclair storm 2 were received on 03/21/05. All samples were received in good condition. Select samples from each event were composited at MSL by either flow proportioning or equal proportioning of discrete samples.

Samples were assigned a Battelle Central File (CF) identification number (2318) and were entered into Battelle's sample tracking system.

The following lists information on sample receipt and processing activities:

EVENT	Composite Collection Date	Laboratory Arrival Date	Extraction Date	PAH/ Phthalate Analysis Date	PCB Analysis Date
Sinclair Storm 1	03/02/05	03/02/05	03/04/05	03/18/05	03/24/05
Sinclair Storm 2	03/21/05	03/21/05	03/20/05	04/30/05	05/01/05 05/02/05

QA/QC PROJECT DATA QUALITY OBJECTIVES:

Analyte	Analytical Method	Reporting Limits (ng/L)	MS Range of Recovery	Laboratory Control Sample	Surrogate Spike Recovery
PAH	GC-MS	20	40-120%	40-120%	40-120%
Phthalates	GC-MS	40	40-120%	40-120%	40-120%
PCB Congeners	GC-ECD	2	40-120%	40-120%	40-120%
Aroclor 1268	GC-ECD	40	40-120%	40-120%	40-120%

METHODS: All samples were extracted and analyzed in accordance with the following Battelle methods:

- *MSL-O-010 Extraction and Cleanup of Water for Semivolatile Organics Following the Surrogate Internal Standard Method.*
- *MSL-O-008 Operation and Maintenance of Gas Chromatographs (GC) and Gas Chromatograph/Mass Spectrometer (GC/MS) Systems.*
- *MSL-O-015 Identification and Quantification of Polynuclear Aromatic Hydrocarbons by Gas Chromatography/Mass Spectrometry Following EPA Method 8270B Quality Control Criteria.*
- *MSL-O-016 Analysis of PCBs and Chlorinated Pesticides by Gas Chromatography with Electron Capture Detection Following EPA METHOD 8080A Quality Control Criteria.*

Results are reported as not blank corrected in units of ng/L for each sample.

HOLDING TIMES: Established holding times of 7 days from collection for the extraction procedure and 40 days from extraction for the analyses were achieved for all samples.

DETECTION LIMITS: Detection limits were determined on a per sample basis and data are flagged (U) using sample specific MDLs. Reporting limits (RL) were established based on a low standard concentration and data are flagged (J) to identify concentrations less than the RL but greater than the MDL.

QA/QC NARRATIVE

DATA QUALIFIERS:

U Not detected at or above MDL, sample specific MDL reported
J Concentration less than RL but greater than MDL
E Estimate
& Spiked sample outside control limits of 40-120% recovery; precision <30%
B Sample concentration is <10x blank
* Associated Surrogate recovery exceeds control limit (flag applied to samples)
# Surrogate recovery outside control limits (40-120% - flag applied to surrogate)

ANALYTICAL NOTE: Two samples in this batch were lost during the extraction processes due to broken glassware. One sample was from storm 1 and one sample from storm 2. In both cases the sample lost was collected from PSNS126.

METHOD BLANK:

PAHs and Phthalates:
Two method blanks were extracted and analyzed with each of the two batches of stormwater samples. The average blank for each batch of samples was less than the RL for all analytes except benzo[a]pyrene in the storm 1 batch. Sample concentrations less than 10 times the average blank were flagged.

The three phthalate compounds were detected in the blank. The phthalate data are flagged as estimates and data usage should be limited to research evaluation.

PCBs:
Two method blanks were extracted and analyzed with each of the two batches of stormwater samples. The average blank for each batch of samples was less than the RL for all analytes except PCB018 for the storm 1 batch. Sample concentrations less than 10 times the average blank were flagged.

LABORATORY CONTROL SAMPLE/BLANK SPIKE RECOVERY:

PAHs
Four blank spikes were extracted and analyzed with this batch of samples. Blank spike samples were within the QC criterion of 40-120% for all PAH compounds except the 2-methyl naphthalene (39%, 28%, 34%, and 35%) and one spike for benz[a]anthracene (121%). Two samples contained detectable concentrations of 2-methyl naphthalene. The data are flagged as estimates (E) due to the consistent low recovery.

Phthalates
Four blank spikes was extracted and analyzed with this batch of samples. Due to the variable method blanks a majority of the blank spikes for the phthalate compounds were outside the QC criterion. The data are all flagged as estimated and data usage should be limited to research evaluation.

PCBs:
Four blank spikes was extracted and analyzed with this batch of samples. Blank spike samples were within the project QC criterion of 40-120% for all PCB congeners except PCB018 (122%, 129%), PCB066 (126%, 123%), PCB101 (121%), PCB118 (127%), PCB153 (126%, 127%), PCB105 (136%, 126%), PCB138 (127%), PCB126 (139%, 134%, 122%), PCB187 (130%), PCB128 (125%), PCB200 (122%), and PCB180 (162%). All recoveries except one fall within the method criterion of 50-150% recovery.

MATRIX SPIKE RECOVERY:

PAHs
Two sets of matrix spike (MS) and matrix spike duplicate (MSD) samples were extracted and analyzed with this batch of samples. The percent recoveries for the MS/MSD samples were within the project QC criterion of 40-120% for all PAH compounds except 2-methyl naphthalene (31%, 39%, and 38%) and one spike for dibenz[a,h]anthracene (22%).

QA/QC NARRATIVE

MATRIX SPIKE RECOVERY conti.:

Phthalates

A majority of the matrix spike recoveries for the phthalate compounds were outside the QC criterion. The data are all flagged as estimated and data usage should be limited to research evaluation.

PCBs:

Two sets of matrix spike (MS) and matrix spike duplicate (MSD) samples were extracted and analyzed with this batch of samples. PCB congeners were within the project QC criterion of 40-120% with the exception of PCB008 (228%), PCB101 (174%), PCB066 (129%, 135%), PCB077 (30%), PCB153 (130%), PCB138 (35%), PCB187 (126%), PCB180 (171%), and PCB170 (33%, 35%). A majority of the recoveries fall with the method QC criterion of 50-150% recovery.

LABORATORY PRECISION:

Laboratory precision was expressed as the relative percent difference (RPD) between the matrix spike duplicates and the laboratory duplicates. The stormwater samples collected from the Sinclair Event locations contained notable amounts of particulate material. This made replication of the water samples extremely difficult and resulted in multiple precision failures. The failures are not attributed to laboratory practices, no corrective action was initiated.

PAHs and Phthalates:

The RPD values for the matrix spike duplicate were within the QC criterion of RPD ≤30% for sample T1212. Several RPDs for sample T1202 were outside the QC criterion and are flagged. Several RPDs were outside the QC criterion for the phthalate compounds.

The RPD values for the laboratory duplicates were generally outside the QC criterion for the PAH and phthalate compounds due to large amounts of particulates in the stormwater.

PCBs:

Several RPD values for the matrix spike duplicate were outside the QC criterion. In all cases, the alternate MS/MSD was acceptable.

Several RPD values for the laboratory duplicates were outside the QC criterion.

SURROGATE RECOVERIES:

Surrogates compounds were used to evaluate the recovery of the extraction and clean-up process for the PAHs, phthalates, and PCB congeners.

PAHs and Phthalates:

The percent recoveries for the surrogate were all within the project QC criterion of 40-120% recovery.

PCBs:

The percent recoveries for the PCB surrogate were all within the project QC criterion of 40-120% recovery except blank spike A processed with storm 1 samples (122%). The alternate surrogate was within the QC criterion.

QA/QC NARRATIVE

PROJECT: Sinclair and Dyes Inlet Storm Water Study – Storm Season 2005 Dyes Storms 1, 2, Makeup Event, and Wet Season Baseflow
PARAMETER: Organics – PAH, Phthalates and PCBs
LABORATORY: Battelle Marine Sciences Laboratory, Sequim, Washington
MATRIX: Storm Water (zero or negligible salinity)

SAMPLE CUSTODY AND PROCESSING: Battelle received storm water samples collected during the 2005 Dyes Inlet storm events. The events included storm 1, storm 2, storm 3 (Makeup Event BI-SBC), and Wet Season Baseflow. Samples from Dyes Storm 1 were received on 03/27/05. Samples from Dyes Storm 2 were received on 04/01/05. Samples from the Wet Season Baseflow sampling were received on 03/31/05. Samples for the BI-SBC Makeup Event were received on 04/11/05. All samples were received in good condition. Select samples from each event were composited at MSL by either flow proportioning or equal proportioning of discrete samples.

Samples were assigned a Battelle Central File (CF) identification number (2318) and were entered into Battelle's sample tracking system.

The following lists information on sample receipt and processing activities:

EVENT	Composite Collection Date	Laboratory Arrival Date	Extraction Date	PAH/ Phthalate Analysis Date	PCB Analysis Date
Dyes Storm 1	03/27/05	03/27/05	03/29/05	04/30/05, 05/01/05	05/02/05, 05/03/05
Dyes Storm 2	04/01/05	04/01/05	04/05/05	05/01/05	05/03/05
Wet Season Baseflow	03/31/05	03/31/05	04/05/05	05/01/05	05/03/05, 05/04/05
Makeup Event	04/11/05	04/11/05	04/13/05	05/01/05	05/03/05

QA/QC PROJECT DATA QUALITY OBJECTIVES:

Analyte	Analytical Method	Reporting Limits (ng/L)	MS Range of Recovery	Laboratory Control Sample	Surrogate Spike Recovery
PAH	GC-MS	20	40-120%	40-120%	40-120%
Phthalates	GC-MS	40	40-120%	40-120%	40-120%
PCB Congeners	GC-ECD	2	40-120%	40-120%	40-120%
Aroclor 1268	GC-ECD	40	40-120%	40-120%	40-120%

METHODS: All samples were extracted and analyzed in accordance with the following Battelle methods:

- *MSL-O-010 Extraction and Cleanup of Water for Semivolatile Organics Following the Surrogate Internal Standard Method.*
- *MSL-O-008 Operation and Maintenance of Gas Chromatographs (GC) and Gas Chromatograph/Mass Spectrometer (GC/MS) Systems.*
- *MSL-O-015 Identification and Quantification of Polynuclear Aromatic Hydrocarbons by Gas Chromatography/Mass Spectrometry Following EPA Method 8270B Quality Control Criteria.*
- *MSL-O-016 Analysis of PCBs and Chlorinated Pesticides by Gas Chromatography with Electron Capture Detection Following EPA METHOD 8080A Quality Control Criteria.*

Results are reported as not blank corrected in units of ng/L for each sample.

QA/QC NARRATIVE

HOLDING TIMES: Established holding times of 7 days from collection for the extraction procedure and 40 days from extraction for the analyses were achieved for all samples.

DETECTION LIMITS: Detection limits were determined on a per sample basis and data are flagged (U) using sample specific MDLs. Reporting limits (RL) were established based on a low standard concentration and data are flagged (J) to identify concentrations less than the RL but greater than the MDL.

DATA QUALIFIERS:

U	Not detected at or above MDL, sample specific MDL reported
J	Concentration less than RL but greater than MDL
E	Estimate
&	Spiked sample outside control limits of 40-120% recovery; precision <30%
B	Sample concentration is <10x blank
*	Associated Surrogate recovery exceeds control limit (flag applied to samples)
#	Surrogate recovery outside control limits (40-120% - flag applied to surrogate)

ANALYTICAL NOTE: Sample T1308 Dyes Storm 2 BI-SBC was lost during the extraction processes due to broken glassware.

METHOD BLANK:

PAHs and Phthalates:

Three method blanks were extracted and analyzed with the stormwater samples. The blank for each batch of samples was less than the RL for all PAH compounds. The three phthalate compounds were detected in the blank. The phthalate data are flagged as estimates and data usage should be limited to research evaluation.

PCBs:

Three method blanks were extracted and analyzed with the stormwater samples. The blank for each batch of samples was less than the RL for all PCBs.

LABORATORY CONTROL SAMPLE/BLANK SPIKE RECOVERY:

PAHs

Five blank spikes were extracted and analyzed with this batch of samples. Blank spike samples were within the QC criterion of 40-120% for all PAH compounds except the 2-methyl naphthalene (37%), fluoranthene (121%), pyrene (496%), benz[a]anthracene (124%)., benzo[b]fluoranthene (127%), benzo[k]fluoranthene (122%), benzo[a]pyrene (339%), indeno[1,2,3-c,d]pyrene (127%), and benzo[g,h,i]perylene (126%). The spikes for pyrene and benzo[a]pyrene were high due to a peak overlap on the chromatogram. The instrument was inspected for carry over problems.

Phthalates

Five blank spikes was extracted and analyzed with this batch of samples. Due to the variable method blanks a majority of the blank spikes for the phthalate compounds were outside the QC criterion. The data are all flagged as estimated and data usage should be limited to research evaluation.

PCBs:

Five blank spikes was extracted and analyzed with this batch of samples. Congeners with a percent recovery outside the project QC criterion of 40-120% were flagged. All PCB congeners for blank spike C recovered high and are attributed to a spiking error. All recoveries for the other four blank spikes, except one spike (PCB180 at 158%), meet the method QC criterion of 50-150% recovery.

MATRIX SPIKE RECOVERY:

PAHs

Two sets of matrix spike (MS) and matrix spike duplicate (MSD) samples were extracted and analyzed with this batch of samples. The percent recoveries outside the project QC criterion of 40-120% were flagged. A majority of the percent recoveries meet the method QC criterion of 50-150% recovery.

QA/QC NARRATIVE

MATRIX SPIKE RECOVERY conti.:

Phthalates

A majority of the matrix spike recoveries for the phthalate compounds were outside the QC criterion. The data are all flagged as estimated and data usage should be limited to research evaluation.

PCBs:

Two sets of matrix spike (MS) and matrix spike duplicate (MSD) samples were extracted and analyzed with this batch of samples. PCB congeners outside the project QC criterion of 40-120% were flagged. A majority of the recoveries fall within the method QC criterion of 50-150% recovery.

LABORATORY PRECISION:

Laboratory precision was expressed as the relative percent difference (RPD) between the matrix spike duplicates and the laboratory duplicates.

PAHs and Phthalates:

The RPD values for the matrix spike duplicate were within the QC criterion of RPD ≤30% for all PAH and phthalate compounds. The RPD values for the laboratory duplicates were within the QC criterion for all PAH compounds. Several phthalate compounds were outside the QC criterion and are flagged.

PCBs:

The RPD values for the matrix spike duplicate were within the QC criterion of RPD ≤30% for all PCB congeners except PCB180 (68%). PCB congeners for the laboratory duplicate were not detected above the RL.

SURROGATE RECOVERIES:

Surrogates compounds were used to evaluate the recovery of the extraction and clean-up process for the PAHs, phthalates, and PCB congeners.

PAHs and Phthalates:

The percent recoveries for the surrogate were within the project QC criterion of 40-120% recovery with the exception of one surrogate for Storm 1 blank spike B (122%) and two surrogates for Storm 2 blank spike A (126% and 129%). The alternate surrogates were within the QC criterion.

PCBs:

The percent recoveries for the PCB surrogate were all within the project QC criterion of 40-120% recovery except sample T1322 for PCB103 (38%). The alternate surrogate was within the QC criterion.

Sample Custody Records: 2005 Storm Water Organic Contaminants

- Chain of Custody
- Login Checksheets
- Battelle Sample Login

SAMPLE CHAIN OF CUSTODY FORM

Date: 3 December 2004

Page: 1 of 1

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-4 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

composite: Equipment Blank

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Bottle # Grab#	06 Fall
	BST12-RB-1	12/2/04 12:47	W																			CF # 2318			
	BST12-RB-2	12/3/04 18:30	W																			BST12-RB	RB	1	50
	BST12-RB-3	12/3/04 00:30	W																			BST12-RB	RB	2	50
	BST12-RB4	12/3/04 06:30	W																			BST12-RB	RB	3	50
																						BST12-RB	RB	4	50
																						TME	OME	ORG	
	BST12-RB	12/3/04 1700	W												X	X	X	X			1	1	2	3	CF 2318

Relinquished by: [signature] 12/3/04 1630

Signature Date Time

JD Estes TEC

Printed Name Company

Received by: [signature] 12/3/04 1630

Signature Date Time

Battell JmBrandenberger

Printed Name Company

Relinquished by:

Signature Date Time

Printed Name Company

Received by:

Signature Date Time

Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

RB - Rinsate Blank

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/18/05

Page: 1 of 8

COC Number:

Worst Storm # 1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

AS PER TABLE 2-1 IN QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID (2318)	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	PEST	No. of containers	StationID	Storm#	Jar#	%Full
	T1100-A	1/17/05 0054	W																		LMK136	2005jan17	1	100
	T1100-B	1/17/05 0354	W																		LMK136	2005jan17	2	100
	T1100-C	1/17/05 0654	W																		LMK136		3	20
	T1100-D	1/17/05 0954	W																		LMK136		4	60
	T1100-E	1/17/05 1203	W																		LMK136		5	100
	T1100-F	1/17/05 1503	W																		LMK136		6	100
	T1100-G	1/17/05 1803	W																		LMK136		7	100
	T1100-H	1/17/05 2103	W																		LMK136		8	100
	T1100-I	1/18/05 0003	W																		LMK136		9	100
	T1100-J	1/18/05 0303	W																		LMK136		10	100 ~~85~~
	T1100-K	1/18/05 0603	W																		LMK136		11	85
TME / DNE	composite																							
4 / 32	T1100	1/18/05 1000		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
60	ORG																							

Relinquished by: JM Brandenberger 1/18/05 1645
Signature Date Time
JD ESTES TEC
Printed Name Company

Received by: JM Brandenberger 1/18/05 1645
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/18/05

Page: 2 of 8

COC Number:

Worst Storm #1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

AS PER TABLE 2-1 IN QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1101-A	1/16/05 2354	W																			GC	2005jan171	1	100
	T1101-B	1/17/05 0554	W																			GC		2	50
	T1101-C	1/17/05 1154	W																			GC		3	75
	T1101-D	1/17/05 1754	W																			GC		4	100
	T1101-E	1/17/05 2354	W																			GC		5	100
	T1101-F	1/18/05 0554	W																			GC		6	85
	~~T1101-G~~		~~W~~																			~~GC~~		~~7~~	
	~~T1101-H~~		~~W~~																			~~GC~~		~~8~~	
	~~T1101-I~~		~~W~~																			~~GC~~		~~9~~	
	~~T1101-J~~		~~W~~																			~~GC~~		~~10~~	
	~~T1101-K~~		~~W~~																			~~GC~~		~~11~~	
TIME	DATE	Composite:																							
5	33	T1101	1/18/05 2230		X	X	X	X	X	X	X	X	X	X	X	X	X	X				1				

Relinquished by:

1/18/05 1645

Signature Date Time

JD Este TEC

Printed Name Company

Received by:

Jm Brandenberger 1/18/05 1645

Signature Date Time

Jm Brandenberger Battelle

Printed Name Company

Relinquished by:

Signature Date Time

Printed Name Company

Received by:

Signature Date Time

Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/18/05

Page: 3 of 8

COC Number:

Worst Storm #1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

AS PER TABLE 2-1 IN QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	PEST	No. of containers	StationID (corrected sample ID JMS 4/18/05)	Storm#	Jar#	%Full
	T1102-A	1/17/05 0001	W																		GCL	2005jan171	1	100 ~~95~~
	T1102-B	1/17/05 0601	W																		GCL		2	100
	T1102-C	1/17/05 1201	W																		GCL		3	100
	T1102-D	1/17/05 1801	W																		GCL		4	100
	T1102-E	1/18/05 0001	W																		GCL		5	100
	T1102-F	1/18/05 0601	W																		GCL		6	90
TIME	COMP	composite																						
6	34	T1102	1/19/05 0940	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
62		Organics																						

Relinquished by: JD Estes — 1/18/05 — 1645
Signature / Date / Time
Printed Name: JD Estes — Company: TEC

Received by: Jm Brandenberger — 1/18/05 — 1645
Signature / Date / Time
Printed Name: Jm Brandenberger — Company: Battelle

Relinquished by:
Signature / Date / Time
Printed Name / Company

Received by:
Signature / Date / Time
Printed Name / Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/18/05

Page: 4 of 8

COC Number:

Worst Storm #1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

AS PER TABLE 2-1 IN QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	Pest	No. of containers	StationID	Storm#	Jar#	%Full
	T1103-A	1/17/05 0026	W																		AC	2005 jan17	1	100
	T1103-B	1/17/05 0626	W																		AC		2	100
	T1103-C *	1/17/05 1226	W																		AC		3	100
	T1103-D *	1/17/05 1826	W																		AC		4	100
	T1103-E	1/18/05 0026	W																		AC		5	100
	T1103-F	1/18/05 0626	W																		AC		6	90
	~~T1103~~																							
TIME ONE	Composite																							
7 35	T1103	4/19/05 0600		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		AC			
63	Organics																							

Relinquished by:	Date	Time	Received by:	Date	Time
Signature	1/18/05	1645	Signature	4/18/05	1645
JD Estes	TEC		Jmgrandenberger	Battelle	
Printed Name	Company		Printed Name	Company	

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by:	Date	Time	Received by:	Date	Time
Signature			Signature		
Printed Name	Company		Printed Name	Company	

Distribution:
1) 2 copies to the Laboratory
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3) Return completed original to Battelle Marine Sciences Laboratory

* affected by debri.

SAMPLE CHAIN OF CUSTODY FORM
Date: 1/18/05
Page: 5 of 8
COC Number:

Worst Storm #1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Miller
Phone: (360) 681-3668

AS PER TABLE 2-1 IN QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road, Sequim, WA 98382
Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1104-A	1/16/05 2357	W																			LMK122	2005jan171	1	100
	T1104-B	1/17/05 0257	W																			LMK122		2	100
	T1104-C	1/17/05 0557	W																			LMK122		3	100
	T1104-D	1/17/05 0857	W																			LMK122		4	100
	T1104-E	1/17/05 1157	W																			LMK122		5	100
	T1104-F	1/17/05 1457	W																			LMK122		6	100
	T1104-G	1/17/05 1757	W																			LMK122		7	100
	T1104-H	1/17/05 2057	W																			LMK122		8	100
	T1104-I	1/17/05 2357	W																			LMK122		9	100
	T1104-J	1/18/05 0257	W																			LMK122		10	100
	T1104-K	1/18/05 0557	W																			LMK122		11	100
TMC one #8 #36 ORG #64	Composite T1104	1/19/05 11:30	W	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x							

Relinquished by:
Signature: JD Este
Date: 1/18/05
Time: 1645
Printed Name: JD Este
Company: TEC

Received by:
Signature: Jm Brandenberger
Date: 1/18/05
Time: 1645
Printed Name: Jm Brandenberger
Company: Battelle

Relinquished by:
Signature
Date
Time
Printed Name
Company

Received by:
Signature
Date
Time
Printed Name
Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 1/18/05
Page: 6 of 8
COC Number:

Gorst Storm #1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Miller
Phone: (360) 681-3668

AS PER TABLE 2-1 IN QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382
Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	PESTICIDES		No. of containers	StationID	Storm#	Jar#	%Full
	T1105-A	1/17/05 0213	W																			LMK038	2005 Jan 17	1	100
	T1105-B	1/17/05 0513	W																			LMK038		2	100
	T1105-C	1/17/05 0813	W																			LMK038		3	100
	T1105-D	1/17/05 1113	W																			LMK038		4	100
	T1105-E	1/17/05 1413	W																			LMK038		5	100
	T1105-F	1/17/05 1713	W																			LMK038		6	100
	T1105-G	1/17/05 2013	W																			LMK038		7	100
	T1105-H	1/17/05 2313	W																			LMK038		8	100
	T1105-I	1/18/05 0213	W																			LMK038		9	100
	T1105-J	1/18/05 0513	W																			LMK038		10	100
TIME ONE #9 #3	Composite	1/19/05 12:30	W	x	x	x	x	x	x	x	x	x	x	x	x	x	+	x	+						
ORG #65																									

Relinquished by: JM Brandenberger 1/18/05 1645
Signature Date Time
JD Isted TEC
Printed Name Company

Received by: JM Brandenberger 1/18/05 1645
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 1/18/05
Page: 7 of 8
COC Number:

Gorst Storm #1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Miller
Phone: (360) 681-3668

AS PER TABLE 2-1 IN QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road, Sequim, WA 98382
Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	Pesticides	No. of containers	StationID	Storm#	Jar#	%Full
	T1106-A	1/17/05 0047	W																		PO-POBLVD	2005JAN17I	1	100
	T1106-B	1/17/05 0347	W																		PO-POBLVD		2	100
	T1106-C	1/17/05 0647	W																		PO-POBLVD		3	100
	T1106-D	1/17/05 0947	W																		PO-POBLVD		4	100
	T1106-E	1/17/05 1247	W																		PO-POBLVD		5	100
	T1106-F	1/17/05 1547	W																		PO-POBLVD		6	100
	T1106-G	1/17/05 1847	W																		PO-POBLVD		7	100
	T1106-H	1/17/05 2147	W																		PO-POBLVD		8	100
	T1106-I	1/18/05 0047	W																		PO-POBLVD		9	100
	T1106-J	1/18/05 0347	W																		PO-POBLVD		10	100
JME/DKE #40/#38	T1106-K	1/18/05 0647	W																		PO-POBLVD	V	11	90
orig #60	Composite	1/19/05 12:30		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					

Relinquished by:
Signature: JDE — Date: 1/18/05 — Time: 1645
Printed Name: JD Estes — Company: TEC

Received by:
Signature: jm brandenberger — Date: 1/18/05 — Time: 1645
Printed Name: jm brandenberger — Company: Battelle

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

Worst Storm #1

SAMPLE CHAIN OF CUSTODY FORM

Date: _____

Page: _____ of _____

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road, Sequim, WA 98382

Attention: Jill Brandenberger

Testing Parameters

Observations, Instructions

2318* Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	Estimated Flow (CFS)
	G1101-A	01/17/05 10:45		X	X	X	X	X	X	X	X	X	X	X	X	X	X				1	KAR-WWTP	17-Jan-05	1	9.79 CFS
	G1101-B	01/17/05 12:31		X	X	X	X	X	X	X	X	X	X	X	X	X	X				1	KAR-WWTP	17-Jan-05	2	9.93 CFS
	G1101-C	01/17/05 3:30		X	X	X	X	X	X	X	X	X	X	X	X	X	X				1	KAR-WWTP	17-Jan-05	3	8.02 CFS
TIME	DATE																								
	Composite																								
12 40	G1101	1/18/05 2140		X	X	X	X	X	X	X	X	X	X	X	X	X	X				1	KAR-WWTP			

Relinquished by:
Signature: _____ Date: 1/18/05 Time: 1050
Printed Name: Bryan Gallagher Company: Karchner Creek

Received by:
Signature: _____ Date: 1/18/05 Time: 1050
Printed Name: JD Esty Company: TEC

Relinquished by:
Signature: _____ Date: 1/18/05 Time: 1640
Printed Name: JD Estes Company: TEC

Received by:
Signature: _____ Date: 1/18/05 Time: 1050
Printed Name: Jm Brandenberger Company: Battelle

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

Jan 17 05 12:28p Dr. R.K. Johnston 360-824-6279 p.1

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/18/05

Page: 1 of 6

COC Number:

Worst Storm #1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

AS PER TABLE 2-1 IN QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

CF#2318

THE ONE

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	%Full
#14 #12	G1103-A	1/17/05 0145	W			X	X						X	X	X	X						AC-LOW	2005jan17	TURBCOLD 1	100
#15 #13	G1103-B	1/17/05 1130	W			X	X						X	X	X	X						AC-LOW	↓	TURB HI 2	100
#16 #14	G1103-C	1/17/05 2100	W			X	X						X	X	X	X						AC-LOW	↓	TURB MED 3	100
	CF																								

Relinquished by:

JA 1/18/05 1645

Signature Date Time

JD TESTO TEC

Printed Name Company

Received by:

Jm Brandenberger 1/18/05 1645

Signature Date Time

Jm Brandenberger Battelle

Printed Name Company

Relinquished by:

Signature Date Time

Printed Name Company

Received by:

Signature Date Time

Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/18/05

Page: 2 of 6

COC Number:

Worst Storm #1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

AS PER TABLE 2-1 IN QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

CF# 2318

THC DHC

GC-Low

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	%Full
#7 #45	G1104-A	1/17/05 0130	W			X	X						X	X	X	X						GC-M	2005Jan17	TURB LOW 1	100
#8 #46	G1104-B	1/17/05 1715	W			X	X						X	X	X	X						GC-M	↓	TURB HI 2	100
#9 #47	G1104-C	1/17/05 2050	W			X	X						X	X	X	X						GC-M	↓	TURB MED 3	100

Relinquished by:			Received by:	
	1/18/05	1645	JM Brandenberger	1/18/05 1645
Signature	Date	Time	Signature	Date Time
JD Ests	TEC		JM Brandenberger	Battelle
Printed Name	Company		Printed Name	Company
Relinquished by:			Received by:	
Signature	Date	Time	Signature	Date Time
Printed Name	Company		Printed Name	Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 1/18/05
Page: 3 of 6
COC Number:

Gorst Storm # 1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Miller
Phone: (360) 681-3668

AS PER TABLE 2-1 IN QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road, Sequim, WA 98382
Attention: Jill Brandenberger

Observations, Instructions

CE-II 2318 TME | TME

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	%Full
#20 #65	G1105-A	1/17/05 0155	W			X	X						X	X	X	X						WADOT-01A	2005Jan17	TURB HI 1	100
#21 #66	G1105-B	1/17/05 1105	W			X	X						X	X	X	X						WADOT-01A	↓	TURB HI 2	100
#22 #50	G1105-C	1/17/05 2110	W			X	X						X	X	X	X						WADOT-01A	↓	TURB HI 3	100
#67 #68	G1105-B-Dup	1/17/05 1107	W			X	X						X	X	X	X						WADOT-01A	2005Jan17	2-Dup TURB HI	100

Relinquished by:	Date	Time	Received by:	Date	Time
JD Este / TEC	1/18/05	1645	JM Brandenberger	1/18/05	1645
Printed Name / Company			Printed Name / Company		
Relinquished by:	Date	Time	Received by:	Date	Time
Printed Name / Company			Printed Name / Company		

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/18/05

Page: 4 of 6

COC Number:

Worst Storm #1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

AS PER TABLE 2-1 IN QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road, Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

CPH 2318 TME DME

Lab. Use only: Lab ID

Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	%Full
G1106-A	Sample not collected	W			X	X															WADOT-01B	2005Jan17I	Dry 1	NA
G1106-B	1/17/05 1115	W			X	X						X	X	X	X						WADOT-01B	↓	[illegible]	100
G1106-C	Sample not collected	W			X	X															WADOT-01B		Dry 3	NA

Relinquished by:	Date	Time	Received by:	Date	Time
Signature	1/18/05	1645	JmzBrandenberger	1/18/05	1645
JDEstes	TEC		JmzBrandenberger	Battelle	
Printed Name	Company		Printed Name	Company	

Relinquished by:	Date	Time	Received by:	Date	Time
Signature			Signature		
Printed Name	Company		Printed Name	Company	

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/18/05

Page: 5 of 6

COC Number:

Worst Storm #1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

AS PER TABLE 2-1 IN QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

CF# 2318

TME/DME

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	%Full
#26 #54	G1107-A	1/17/05 0010	W			X	X						X	X	X	X						WADOT-02	2005 Jan 17th	TURB Hi 1	100
#27 #55	G1107-B	1/17/05 1045	W			X	X						X	X	X	X						WADOT-02	↓	TURB Hi 2	100
#28 #56	G1107-C	1/17/05 2040	W			X	X						X	X	X	X						WADOT-02	↓	TURB Hi 3	100

Relinquished by:			Received by:		
Signature	11/18/05 Date	1645 Time	Signature	1/18/05 Date	1645 Time
JD Test Printed Name	TEC Company		Jm Brandenberger Printed Name	Battelle Company	
Relinquished by:			Received by:		
Signature	Date	Time	Signature	Date	Time
Printed Name	Company		Printed Name	Company	

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 1/18/05
Page: 6 of 6
COC Number:

Gorst Storm #1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Miller
Phone: (360) 681-3668

AS PER TABLE 2-1 IN QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road, Sequim, WA 98382
Attention: Jill Brandenberger

Observations, Instructions

CF#
2318

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	%Full
29 57	G1108-A	1/17/05 0120	W			X	X						X	X	X	X						WADOT-03	2005Jan171	TURB HI 1	100
30 58	G1108-B	1/17/05 1050	W			X	X						X	X	X	X						WADOT-03	↓	TURB HI 2	100
31 59	G1108-C	1/17/05 2030	W			X	X						X	X	X	X						WADOT-03	↓	TURB HI 3	100

Relinquished by:
Signature — Date: 1/18/05 — Time: 1645
JD Estes — TEC
Printed Name — Company

Received by:
Jim Brandenberger — 1/18/05 — 1645
Signature — Date — Time
Jim Brandenberger — 1645 Battelle
Printed Name — Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/18/05

Page: 8 of 8

COC Number:

Worst Storm #1

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	Pesticides		No. of containers	StationID	Storm#	Grab#	% Full
2318																									
	T1114-A	1/17/05 0022	W																			AC-DUP	2005Jan17	1	100
	T1114-B	1/17/05 0622	W																			AC-DUP	X	2	100
	T1114-C	1/17/05 1222	W																			AC-DUP	X	3	100
	T1114-D	1/17/05 1822	W																			AC-DUP	X	4	100
	T1114-E	1/18/05 0022	W																			AC-DUP	X	5	100
	T1114-F	1/18/05 0622	W																			AC-DUP	X	6	90
TME DUP																									
	Composite																								
69 | 70	T1114	1/19/05 0600		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			AC-DUP			
ORG #71																									

Relinquished by:

Signature	Date	Time
JD ZSW	1/18/05	1645
Printed Name	TEC	Company

Received by:

Signature	Date	Time
Jm Brandenberger	1/18/05	1645
Printed Name	Battelle	Company

Relinquished by:

Signature	Date	Time
Printed Name		Company

Received by:

Signature	Date	Time
Printed Name		Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/23/05

Page: 1 of 8

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Storm #2

As per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

MSL 2318 * TME DHE ORG Lab. Use only: Lab ID			Sample ID (composite)	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	% Full
72	100	128	T1107-A	1/22/05 0642	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				LMK136	2005jan222	1	100
			T1107-B	1/22/05 0942	W																			LMK136	2005jan222	2	100
			T1107-C	1/22/05 1242	W																			LMK136	2005jan222	3	100
			T1107-D	1/22/05 1542	W																			LMK136	2005jan222	4	100
			T1107-E	1/22/05 1842	W																			LMK136	2005jan222	5	75

Relinquished by: Brian Rupert — 1/23/2005 1130 — TEC
Signature / Printed Name — Date — Time — Company

Received by: L O'Rourke — 1/23/05 1130 — Battelle MSL
Signature / Printed Name — Date — Time — Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/23/05
Page: 2 of 8
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Storm #2
as per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

MSL 2318*
~~2138*~~ JLO 1/24/05

THE Lab. Use only: Lab ID	Sample ID (composite)	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	% Full
73 101	T1108-A	1/22/05 0530	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X					GC	2005jan222	1	100
	T1108-B	1/22/05 1130	W																			GC	2005jan222	2	100
	T1108-C	1/22/05 1730	W																			GC	2005jan222	3	50

Relinquished by:	Signature	Date	Time	Received by:	Signature	Date	Time
		1/23/05	1130			1/23/05	1130
	Brian Rupert	TEC			LO'Rourke	Battelle MSL	
	Printed Name	Company			Printed Name	Company	
Relinquished by:				Received by:			
	Signature	Date	Time		Signature	Date	Time
	Printed Name	Company			Printed Name	Company	

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/23/05

Page: 3 of 8

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Storm #2

as per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

MSL
~~2138*~~ 2318*
Lms 1/24/05

THE | DME

Lab. Use only: Lab ID

Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	% Full
74102	T1109-A (composite)	1/22/05 0943	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X					GC-SAN	2005jan222	1	100
	T1109-B	1/22/05 1543	W																			GC-SAN	2005jan222	2	100
	T1109-C	1/22/05 2143	W																			GC-SAN	2005jan222	3	35

Relinquished by: _____ 1/23/05 1130
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: _____ 1/23/05 1130
Signature Date Time
LO'Rourke Battelle MSL
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by: _____
Signature Date Time
Printed Name Company

Received by: _____
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/23/05

Page: 5 of 8

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Storm #2
as per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

MSL
~~2138*~~ 2318 *
two 1/24/05

Lab. Use only: THE DHE ORG

Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	% Full
75 103 129	T1111-A (composite)	1/22/05 0922	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				LMK122	2005jan222	1	100
	T1111-B	1/22/05 1222	W																			LMK122	2005jan222	2	100
	T1111-C	1/22/05 1522	W																			LMK122	2005jan222	3	100
	T1111-D	1/22/05 1822	W																			LMK122	2005jan222	4	100
	T1111-E	1/22/05 2122	W																			LMK122	2005jan222	5	50

Relinquished by: [signature] 1/23/05 1130
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: LO'Rourke 1/23/05 1130
Signature Date Time
LO'Rourke Battelle MSL
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/23/05

Page: 6 of 8

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Storm #2
as per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

MSL
~~2138*~~ 2318* Rec'd 1/24/05

Lab. Use only: TME DME ORG

Lab ID: 76 104 130

Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	% Full
T1112-A	1/22/05 0821	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				LMK038	2005jan222	1	100
T1112-B	1/22/05 1121	W																			LMK038	2005jan222	2	100
T1112-C	1/22/05 1421	W																			LMK038	2005jan222	3	100
T1112-D	1/22/05 1721	W																			LMK038	2005jan222	4	100
T1112-E	1/22/05 2021	W																			LMK038	2005jan222	5	40

Composite

Relinquished by: _____ 1/23/05 1130
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: _____ 1/23/05 1130
Signature Date Time
LO'Rourke Battelle MSL
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by: _____
Signature Date Time
Printed Name Company

Received by: _____
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/23/05

Page: 7 of 8

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Storm #2
as per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

MSL 2318*

Lab. Use only: Lab ID	THE	DUE	ORG	Sample ID (Composite)	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	% Full
77	105	131		T1113-A	1/22/05 0028	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				POPOBLVD	2005jan222	1	100
				T1113-B	1/22/05 0528	W																			POPOBLVD	2005jan222	2	100
				T1113-C	1/22/05 1228	W																			POPOBLVD	2005jan222	3	100
				T1113-D	1/22/05 1528	W																			POPOBLVD	2005jan222	4	100
				T1113-E	1/22/05 1828	W																			POPOBLVD	2005jan222	5	80

Relinquished by: _____ 1/23/05 1130
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: _____ 1/23/05 1130
Signature Date Time
LO'Rourke Battelle MSL
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by: _____
Signature Date Time
Printed Name Company

Received by: _____
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/23/05

Page: 8 of 8

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Storm #2
as per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

MSL 2315* TME / DME Lab. Use only: Lab ID	Composite Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	% Full
78 106	T1115-A	1/22/05 0538	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X					AC-DUP	2005jan222	1	100
	T1115-B	1/22/05 1138	W																			AC-DUP	2005jan222	2	100
	T1115-C	1/22/05 1738	W																			AC-DUP	2005jan222	3	100

Relinquished by:
Signature: [signature] Date: 1/23/05 Time: 1130
Printed Name: Brian Rupert Company: TEC

Received by:
Signature: [signature] Date: 1/23/05 Time: 1130
Printed Name: L D'Rouin Company: Battelle MSL

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/23/05

Page: 4 of 8

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Storm #2
as per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

DO NOT PROCESS per RJK 1/23/05 JMC

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	% Full
	T1110-A	1/22/05 0957	W																			AC	2005jan222	1	100
	T1110-B	1/22/05 1557	W																			AC	2005jan222	2	100
	T1110-C	1/22/05 2157	W																			AC	2005jan222	3	30

Relinquished by: _____ 1/23/05 1138
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: _____ 1/23/05 1130
Signature Date Time
LO'Rourke Battelle MSL
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by: _____
Signature Date Time
Printed Name Company

Received by: _____
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/23/05

Page: 1 of ~~X~~5

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Storm #2
as per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

MSL 2318*
TME | DME
Lab. Use only:

Lab ID		Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	2005jan222 Storm#	Grab#	% Full
81	109	G1112-A	1/22/05 0750	W			X	X						X	X	X	X						AC-LOW	2005jan222	1	100
82	110	G1112-B	1/22/05 1805	W			X	X						X	X	X	X						AC-LOW	2005jan222	2	100
83	111	G1112-C	1/22/05 2230	W			X	X						X	X	X	X						AC-LOW	2005jan222	3	100
99	127	G1112-A-Dup1	1/22/05 0753	W			X	X						X	X	X	X						AC-LOW	2005jan222	Dup1	100

Relinquished by: _____ 1/23/05 1130
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: _____ 1/23/05 1130
Signature Date Time
LO Rourke Battelle MSL
Printed Name Company

Relinquished by: _____
Signature Date Time
Printed Name Company

Received by: _____
Signature Date Time
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 1/23/05
Page: 2 of ~~X~~ 5
COC Number: ______

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Miller
Phone: (360) 681-3668

Storm #2
as per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382
Attention: Jill Brandenberger
Observations, Instructions

MSL 2318*

Lab. Use only: Lab ID (TME)	(DME)	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID (GC-~~LOW~~ M)	Storm# (2005jan222)	Grab#	% Full
84	112	G1113-A	1/22/05 1035	W			X	X						X	X	X	X						GC-M	2005jan222	1	100
85	113	G1113-B	1/22/05 1745	W			X	X						X	X	X	X						GC-M	2005jan222	2	100
86	114	G1113-C	1/22/05 2205	W			X	X						X	X	X	X						GC-M	2005jan222	3	100

(initials) 1/31/05

Relinquished by: [signature] 1/23/05 1130
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: [signature] 1/23/05 1130
Signature Date Time
L O'Rourke Battelle MSL
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:
Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/23/05

Page: 3 of ~~6~~ 5

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Storm #2
as per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road, Sequim, WA 98382
Attention: Jill Brandenberger

Observations, Instructions

MSL 2318* TME Lab. Use only: Lab ID	DME	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	2005jan222 Storm#	Grab#	% Full
87	115	G1114-A	1/22/05 0733	W			X	X						X	X	X	X						WADOT-01A	2005jan222	1	100
88	116	G1114-B	1/22/05 1750	W			X	X						X	X	X	X						WADOT-01A	2005jan222	2	100
89	117	G1114-C	1/22/05 2220	W			X	X						X	X	X	X						WADOT-01A	2005jan222	3	100

Relinquished by: 1/23/05 1130
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: 1/23/05 1130
Signature Date Time
L. O'Rourke Battelle MSL
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/23/05

Page: 48 of ~~45~~

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Storm #2
as per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

MSL 2318* TME DME Lab. Use only: Lab ID		Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	2005jan222 Storm#	Grab#	% Full
93	121	G1116-A	1/22/05 0719	W			X	X						X	X	X	X						WADOT-02	2005jan222	1	100
94	122	G1116-B	1/22/05 1725	W			X	X						X	X	X	X						WADOT-02	2005jan222	2	100
95	123	G1116-C	1/22/05 2145	W			X	X						X	X	X	X						WADOT-02	2005jan222	3	100

Relinquished by: Brian Ruper TEC — 1/23/05 1130
Signature / Printed Name — Date / Time — Company

Received by: LO'Rourke Battelle MSL — 1/23/05 1130
Signature / Printed Name — Date / Time — Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/23/05

Page: ~~X~~5 of ~~X~~5

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Storm #2

as per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

MSL 2318* TME DNE Lab. Use only: Lab ID		Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	2005jan22 Storm#	Grab#	% Full
96	124	G1117-A	1/22/05 0725	W			X	X						X	X	X	X						WADOT-03	2005jan22	1	100
97	125	G1117-B	1/22/05 1735	W			X	X						X	X	X	X						WADOT-03	2005jan22	2	100
98	126	G1117-C	1/22/05 2155	W			X	X						X	X	X	X						WADOT-03	2005jan22	3	100

Relinquished by: _____ 1/23/05 1130
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: _____ 1/23/05 1130
Signature Date Time
LO'Rourke Battelle MSL
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by: _____
Signature Date Time
Printed Name Company

Received by: _____
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to
Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 1/22/05

Page: 1 of 1

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road, Sequim, WA 98382

Attention: Jill Brandenberger

Testing Parameters

Observations, Instructions

MSL 2318 ←

Lab Use only: TME / DME Lab ID	Sample ID (composite)	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	Estimated Flow (CFS)
	G1110-A	0730 1/22/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				KAR-WWTP	GORST2	#1	1.86 CFS
80 108	G1110-B	1130 1/22/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				KAR-WWTP	GORST2	#2	3.56 CFS
	G1110-C	1500 1/22/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				KAR-WWTP	GORST2	#3	3.56 CFS

Relinquished by:

Signature: [signature] Date: 1/22/05 Time: 3:00

Printed Name: Bryan Gallagher Company: Karcher Creek

Relinquished by:

Signature Date Time

Printed Name Company

Received by:

Signature: [signature] Date: 1/22/05 Time: 1500

Printed Name: Dave Metallo Company: TEC, Inc.

Received by:

Signature: [signature] Date: 1/23/05 Time: 1130

Printed Name: L.O Kerwin Company: Battelle MSL

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

COC Number: _____ **CHAIN OF CUSTODY FORM** Page: 1 of 9

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets

Date:
Sample Team: Whitney, Walpole, Beckwith (PSNS)
Analyze parameters per Table 2-1 in ENVVEST QAPP

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Observations, Instructions

CF # TME 132 DME 133

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	NUTRIENTS	Hg	OSAL (ocean Salinity)	No. of Battelle containe	StationID	Cruise or Storm#	Jar#	% Full
132/133	M4100	2/9/2005 07430 AM	H2O									x	x	x							1	P3	2005ENV01		95
	M4100SAL	2/9/2005 0743 AM	H2O																	x	1	P3	2005ENV01		95
134/135	M4101	2/9/2005 0805 AM	H2O									x	x	x							1	P2	2005ENV01		95
	M4101SAL	2/9/2005 0805 AM	H2O																	x	1	P2	2005ENV01		95
136/137	M4102	2/9/2005 0805 AM	H2O									x	x	x							1	P2 DUP	2005ENV01		95
	M4102SAL	2/9/05 1313 PM	H2O																	x	1	P2 DUP	2005ENV01		95
138/139	M4103	2/9/2005 0841 AM	H2O									x	x	x							1	P1	2005ENV01		95
	M4103SAL	2/9/2005 0841 AM	H2O																	x	1	P1	2005ENV01		95
140/141	M4104	2/9/2005 0930 AM	H2O									x	x	x							1	M4	2005ENV01		95
	M4104NUTSHG	2/9/2005 0930 AM	H2O															x	x		1	M4	2005ENV01		95
	M4104SAL	2/9/2005 0930 AM	H2O																	x	1	M4	2005ENV01		95
142/143	M4105	2/9/2005 0951 AM	H2O									x	x	x							1	M3.3	2005ENV01		95
	M4105SAL	2/9/2005 0951 AM	H2O																	x	1	M3.3	2005ENV01		95
144/145	M4106	2/9/2005 1015 AM	H2O									x	x	x							1	SN12	2005ENV01		95
	M4106SAL	2/9/2005 1015 AM	H2O																	x	1	SN12	2005ENV01		95
146/147	M4107	2/9/2005 1030 AM	H2O									x	x	x							1	BJ-EST	2005ENV01		95
	M4107SAL	2/9/2005 1030 AM	H2O																	x	1	BJ-EST	2005ENV01		95
148/149	M4108	2/9/2005 1054 AM	H2O									x	x	x							1	M3.1	2005ENV01		95
	M4108NUTSHG	2/9/2005 1054 AM	H2O															x	x		1	M3.1	2005ENV01		95
	M4108SAL	2/9/2005 1054 AM	H2O																	x	1	M3.1	2005ENV01		95
150/151	M4109	2/9/2005 1201 PM	H2O									x	x	x				x	x		1	M6	2005ENV01		95
	M4109NUTSHG	2/9/2005 1201 PM	H2O															x	x		1	M6	2005ENV01		95
	M4109SAL	2/9/2005 1201 PM	H2O																	x	1	M6	2005ENV01		95
152/153	M4110	2/9/2005 1110 AM	H2O									x	x	x							1	DY01	2005ENV01		95
	M4110SAL	2/9/2005 1110 AM	H2O																	x	1	DY01	2005ENV01		95
154/155	M4112	2/9/2005 0914 AM	H2O									x	x	x							1	PL01	2005ENV01		95
	M4112SAL	2/9/2005 0914 AM	H2O																	x	1	PL01	2005ENV01		95
156/157	M4113	2/9/2005 1045 AM	H2O									x	x	x							1	PL02	2005ENV01		95
	M4113SAL	2/9/2005 1045 AM	H2O																	x	1	PL02	2005ENV01		95
158/159	M4114	2/9/2005 1225 PM	H2O									x	x	x							1	PL03	2005ENV01		95
	M4114SAL	2/9/2005 1225 PM	H2O																	x	1	PL03	2005ENV01		95

Relinquished by: Brooks H Walpole 02-09-05 1610
Signature Date Time
Brooks H Walpole PSNS
Printed Name Company

Received by: 2/9/05 1610
Signature Date Time
Jim Beckwith Battelle
Printed Name Company

Total # of Containers 30
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

COC Number: _____ **CHAIN OF CUSTODY FORM** Page: 1 of 9

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets

Date:
Sample Team: Whitney, Walpole, Beckwith (PSNS)
Analyze parameters per Table 2-1 in ENVVEST QAPP

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Observations, Instructions

Lab. Use only: Lab ID DME	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	NUTRIENTS	Hg	OSAL (ocean Salinity)	No. of Battelle containe	StationID	Cruise or Storm#	Jar#	% Full
	M4100-TS	2/9/2005 1301 PM	H2O			x	x														1	P3	2005ENV01		95
	M4101-TS	2/9/2005 1313 PM	H2O			x	x														1	P2	2005ENV01		95
	M4102-TS	2/9/05 1313 PM	H2O			x	x															P2 DUP	2005ENV01		95
	M4103-TS	2/9/2005 0841 AM	H2O			x	x														1	P1	2005ENV01		95
	M4104-TS	2/9/2005 0930 AM	H2O			x	x														1	M4	2005ENV01		95
	M4105-TS	2/9/2005 0951 AM	H2O			x	x														1	M3.3	2005ENV01		95
	M4106-TS	2/9/2005 1015 AM	H2O			x	x														1	SN12	2005ENV01		95
	M4107-TS	2/9/2005 1030 AM	H2O			x	x														1	BJ-EST	2005ENV01		95
	M4108-TS	2/9/2005 1054 AM	H2O			x	x														1	M3.1	2005ENV01		95
	M4109-TS	2/9/2005 1201 PM	H2O			x	x														1	M6	2005ENV01		95
	M4110-TS	2/9/2005 1110 AM	H2O			x	x														1	DY01	2005ENV01		95
	M4112-TS	2/9/2005 0914 AM	H2O			x	x														1	PL01	2005ENV01		95
	M4113-TS	2/9/2005 1045 AM	H2O			x	x														1	PL02	2005ENV01		95
	M4114-TS	2/9/2005 1225 PM	H2O			x	x														1	PL03	2005ENV01		95

Relinquished by: Brooks Walpole 02-09-05 16:10
Signature Date Time
Brooks Walpole PSNS
Printed Name Company

Received by: JM Brandenberger 2/9/05 16:10
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Total # of Containers 14
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: _____

Page: _____ of _____

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1206-A	2/28/05 1732	W																			PSNS126	2005Feb28I	1	100
	T1206-B	2/28/05 2032	W																			PSNS126		2	100
	T1206-C	2/28/05 2332	W																			PSNS126		3	100
	T1206-D	3/1/05 0232	W																			PSNS126		4	100
	T1206-E	3/1/05 0532	W																			PSNS126		5	100
	T1206-F	3/1/05 0832	W																			PSNS126		6	100
	T1206-G	3/1/05 1132	W																			PSNS126		7	80
	T1206-H		W																			PSNS126		8	
TME/DME 172/173 ORG — 238	Flow Composite	T1206 3/2/05 1940		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							

Relinquished by: _____ 3/2/05
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: _____ 3/2/05 0930
Signature Date Time
Jm Brandenberger Battelle
Printed Name Company

Relinquished by: _____
Signature Date Time
Printed Name Company

Received by: _____
Signature Date Time
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: _____

Page: _____ of _____

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

2318 *

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1205-A	2/28/05 1726	W																			PSNS124	2005Feb28I	1	100
	T1205-B	2/28/05 2026	W																			PSNS124		2	100
	T1205-C	2/28/05 2326	W																			PSNS124		3	100
	T1205-D	3/1/05 0226	W																			PSNS124		4	100
	T1205-E	3/1/05 0526	W																			PSNS124		5	100
	T1205-F	3/1/05 0826	W																			PSNS124		6	100
	T1205-G	3/1/05 1126	W																			PSNS124		7	45
	~~T1205-H~~		~~W~~																			~~PSNS124~~		~~8~~	
TME/DME 170/171	Flowcomp T1205	3/2/05 1930		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
ORG-	237																								

Relinquished by: _____ 3/2/05
Signature Date Time

Brian Rupert TEC
Printed Name Company

Received by: _____ 3/2/05 0930
Signature Date Time

Jm BrandenSteger Battelle
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by: _____
Signature Date Time

Printed Name Company

Received by: _____
Signature Date Time

Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: _____

Page: _____ of _____

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	PEST	No. of containers	StationID	Storm#	Jar#	%Full
	T1204-A	2/28/05 1741	W																		PSNS015	2005Feb28I	1	100
	T1204-B	2/28/05 2041	W																		PSNS015		2	100
	T1204-C	2/28/05 2341	W																		PSNS015		3	100
	T1204-D	3/1/05 0241	W																		PSNS015		4	100
	T1204-E	3/1/05 0541	W																		PSNS015		5	100
	T1204-F	3/1/05 0841	W																		PSNS015		6	100
	T1204-G	3/1/05 1141	W																		PSNS015		7	~5
	~~T1204-H~~		~~W~~																		~~PSNS015~~		~~8~~	
TME/DME 168/169 ORG-236	Flow composite T1204	3/2/05 1910		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					

Relinquished by:
Signature — Date 3/2/05 — Time
Brian Rupert — TEC
Printed Name — Company

Received by:
Signature — Date 3/2/05 — Time 0930
Jm Brandenberger — Battelle
Printed Name — Company

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: _____

Page: _____ of _____

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road, Sequim, WA 98382
Attention: Jill Brandenberger

Observations, Instructions

2318 * Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1203-A	2/28/05 1452	W																			B-ST/CSO16	2005Feb28	1	100
	T1203-B	2/28/05 1752	W																			B-ST/CSO16		2	100
	T1203-C	2/28/05 2052	W																			B-ST/CSO16		3	100
	T1203-D	2/28/05 2352	W																			B-ST/CSO16		4	100
	T1203-E	3/1/05 0252	W																			B-ST/CSO16		5	100
	T1203-F	3/1/05 0552	W																			B-ST/CSO16		6	100
	T1203-G	3/1/05 0852	W																			B-ST/CSO16		7	100
	~~T1203-H~~		~~W~~																			~~B-ST/CSO16~~		~~8~~	
TME/OME 166/167 ORG-235	Flow composite	3/2/05 1850		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							

Relinquished by:
Signature — Date 3/2/05 — Time
Brian Rupert — TEC
Printed Name — Company

Received by:
Signature — Date 3/2/05 — Time 0930
JM Brandenberger — Battelle
Printed Name — Company

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: _____

Page: _____ of _____

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road, Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

2318 *

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1202-A	2/28/05 1521	W																			B-ST28	2005 FEB 28I	1	50%
	T1202-B	2/28/05 1821	W																			B-ST28		2	100%
	T1202-C	2/28/05 2121	W																			B-ST28		3	100%
	T1202-D	3/1/05 0021	W																			B-ST28		4	100%
	T1202-E	3/1/05 0321	W																			B-ST28		5	0% Full ①
	T1202-F	3/1/05 0621	W																			B-ST28		6	45%
	T1202-G	3/1/05 0921	W																			B-ST28		7	100%
	~~T1202-H~~	BK	W																			~~B-ST28~~		~~8~~	
	Flow																								
TIME/DATE	Composite																								
164/165	T1202	3/2/05 1830		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
ORG-	234																								

Relinquished by: _____ 3/2/05

Signature Date Time

Brian Rupert TEC

Printed Name Company

Received by: _____ 3/2/05 0930

Signature Date Time

JM Brandenberger Battelle

Printed Name Company

Relinquished by: _____

Signature Date Time

Printed Name Company

Received by: _____

Signature Date Time

Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

 ② Sample Taken

SAMPLE CHAIN OF CUSTODY FORM

Date: _____

Page: _____ of _____

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

2318 * Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	PEST	No. of containers	StationID	Storm#	Jar#	%Full
	T1201-A	2/28/05 1558	W																		OC	2005 FEB 28	1	100%
	T1201-B	2/28/05 2158	W																		OC		2	100%
	T1201-C	3/1/05 0358	W																		OC		3	100%
	T1201-D	3/1/05 0958	W																		OC		4	20%
TME/DME																								
162/163	T1201 Composite	3/2/05 1801		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
ORG-233																								
	Equal Composite of A, B, C and 1/4 portion of D.																							

Relinquished by:

Signature: _____ Date: 3/2/05 Time: _____

Printed Name: Brian Rupert Company: TEC

Received by:

Signature: _____ Date: 3/2/05 Time: 0930

Printed Name: Jm Brandenberger Company: Battelle

Relinquished by:

Signature: _____ Date: _____ Time: _____

Printed Name: _____ Company: _____

Received by:

Signature: _____ Date: _____ Time: _____

Printed Name: _____ Company: _____

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: _____

Page: _____ of _____

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

CF 2318 *

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	Pest	No. of containers	StationID	Storm#	Jar#	%Full
	T1200-A	2/28/05 1538	W																		BL	2005 FEB 28	1	100%
	T1200-B	2/28/05 2138	W																		BL		2	100%
	T1200-C	3/1/05 0338	W																		BL		3	100%
	T1200-D	3/1/05 0938	W																		BL		4	30%
	~~T1200-BR~~																							
TME DME 160 161 ORG 232	T1200 composite	3/2/05 1145		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	+				
	Equal composites of A, B, and C. 1/4 ratio for D due to 0% full of jar.																							

Relinquished by:	Signature	Date	Time
	Brian Rupert	3/2/05	
	Printed Name	TEC	Company

Received by:	Signature	Date	Time
	JM Brandenberger	3/2/05	0930
	Printed Name	Battelle	Company

Relinquished by:	Signature	Date	Time
	Printed Name		Company

Received by:	Signature	Date	Time
	Printed Name		Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 03-01-05

Page: 1 of 1

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Per SOW

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructi

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#
	G1200-A	03-1-05 0725	W																			Brem WWTP	2005 March 01	1
	G1200-B	03-1-05 0855	W																			B-WWTP		2
	G1200-C	03-1-05 11:10	W																			B WWTP		3
TIME/DATE	Composite																							
174/175	G1200	3/2/05 2130		X	X	X	X	X	X	X	X	X	X	X	X	X	X							

Relinquished by:
John DyKoweN 3-1-05 1415
Signature Date Time
John DyKoweN City of Brem WWTP
Printed Name Company

Received by:
3/1/05 1415
Signature Date Time
Brian Rupert TEC, INC
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
3/2/05 0930
Signature Date Time
Jim Brandenberger Battelle
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditio

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Labora

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/1/05
Page: 1 of 1
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Miller
Phone: (360) 681-3668

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road, Sequim, WA 98382
Attention: Jill Brandenberger

Testing Parameters

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	Estimated Flow (CFS)
	~~Code should be G~~			X	X	X	X	X	X	X	X	X	X	X	X	X	X					~~KAR-WWTP~~	~~17-Jan-05~~		
				X	X	X	X	X	X	X	X	X	X	X	X	X	X					~~KAR-WWTP~~	~~17-Jan-05~~		
				X	X	X	X	X	X	X	X	X	X	X	X	X	X					~~KAR-WWTP~~	~~17-Jan-05~~		
	G1201-A	8:00 3/1/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X					KAR-WWTP	1-Mar-05	1	3.6 CFS
	G1201-B	10:30 3/1/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X					KAR-WWTP	1-Mar-05	2	3.9 CFS
	G1201-C	12:45 3/1/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X					KAR-WWTP	1-Mar-05	3	3.0 CFS
~~DmB/DmE~~ 176/177	Composite	3/2/05 2115		X	X	X	X	X	X	X	X	X	X	X	X	X	X								

Relinquished by: 3/1/05 1:00
Signature Date Time
Bryan Gallagher Karcher Creek
Printed Name Company

Received by: 3/1/05 1344
Signature Date Time
Brian Rupert TEC
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by: 3/2/05 938
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:
Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

Jan 17 05 12:28p Dr. R.K. Johnston 360-824-6279 p.1

SAMPLE CHAIN OF CUSTODY FORM

Date: _____

Page: _____ of _____

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road, Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	#2318 TME / DNE
	G1205-A	2/26/05 1705	W			X	X						X	X								WADOT-1A	2005Feb281	1	180 181
	G1205-B	2/26/05 2238	W			X	X						X	X								WADOT-1A	〃	2	182 183
	G1205-C	3/1/05 1081	W			X	X						X	X								WADOT-1A	〃	3	184 185

Relinquished by: _____ 3/2/05
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: _____ 3/2/05 0930
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Relinquished by: _____
Signature Date Time
Printed Name Company

Received by: _____
Signature Date Time
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: _____

Page: _____ of _____

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	#2318 THE/DNE
	G1207-A	3/2/05 1645	W			X	X						X	X	X	X						WADOT-02	2005Feb28I	1	192 193
	G1207-B	3/2/05 2206	W			X	X						X	X	X	X						WADOT-02		2	194 195
	G1207-C	3/1/05 1610	W			X	X						X	X	X	X						WADOT-02	1	3	196 197
THE																									
2318-180																									
DNE																									
2318-181																									
MW																									
3/2/05																									

Relinquished by: _____ 3/2/05
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: _____ 3/2/05 0930
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Relinquished by: _____
Signature Date Time
_____
Printed Name Company

Received by: _____
Signature Date Time
_____
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: _____

Page: _____ of _____

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	#2318 TIME/DATE
	G1208-A	2/28/05 1655	W			X	X						X	X	X	X						WADOT-03	2005Feb361	1	198 199
	G1208-B	2/28/05 2216	W			X	X						X	X	X	X						WADOT-03		2	200 201
	G1208-C	3/1/05 1018	W			X	X						X	X	X	X						WADOT-03	1	3	202 203

Relinquished by: _____ 3/2/05
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: _____ 3/2/05 0930
Signature Date Time
Jill Brandenberger Battelle
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by: _____
Signature Date Time
Printed Name Company

Received by: _____
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

COC Number: 2005ENV02 **CHAIN OF CUSTODY FORM** Page: 1 of 2

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Miller
Phone: (360) 681-3668

Date:
Sample Team: Whitney, Walpole, Beckwith (PSNS)
Event: Sinclair Marine and Nearshore

Analyze parameters per Table 2-1 in ENVVEST QAPP

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382
ATTN: Jill Brandenburg

2318* TME/DME

Lab. Use only: Lab ID	Sample ID	Collection Date	Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	NUTRIENTS	Hg	OSAL (ocean Salinity)	No. of Battelle containers	Observations, Instructions: StationID	Cruise or Storm#	Jar#	% Full
204/205	M4150	3/2/05	6/1900 6:53A	H2O									x	x	x							1	P3	2005ENV02		95
	M4150SAL	3/2/05	6:53:00	H2O																	x	1	P3	2005ENV02		95
206/207	M4151	3/2/05	1900 7100:00	H2O									x	x	x							1	P2	2005ENV02		95
	M4151SAL	3/2/05	900 7:1000:0	H2O																	x	1	P2	2005ENV02		95
216/211	M4152	3/2/05	7:52:00	H2O									x	x	x							1	P1	2005ENV02		95
	M4152SAL	3/2/05	7:52:00	H2O																	x	1	P1	2005ENV02		95
dup 212/213	M4153	3/2/05	8:23:00	H2O									x	x	x							1	M4	2005ENV02		95
	M4154NUTSHG	3/2/05	8:23:00	H2O															x	x		1	M4	2005ENV02	Not Recd	95
	M4154SAL	3/2/05	8:23:00	H2O																	x	1	M4	2005ENV02		95
	M4154NUTSHG	3/2/05	8:23:00	H2O															x	x		1	M4 DUP	2005ENV02	Not Rec'd	95
	M4154SAL	3/2/05	8:23:00	H2O																	x	1	M4 DUP	2005ENV02		95
208/209	M4154 ~~DUP~~	3/2/05	8:23:00	H2O									x	x	x								M4 DUP	2005ENV02		95
214/215	M4155	3/2/05	8:46:00	H2O									x	x	x							1	M3.3	2005ENV02		95
	M4155SAL	3/2/05	8:46:00	H2O																	x	1	M3.3	2005ENV02		95
216/217	M4156	3/2/05	9:00:00	H2O									x	x	x							1	SN12	2005ENV02		95
	M4156SAL	3/2/05	9:00:00	H2O																	x	1	SN12	2005ENV02		95
218/219	M4157	3/2/05	9:14:00	H2O									x	x	x							1	BJ-EST	2005ENV02		95
	M4157SAL	3/2/05	9:14:00	H2O																	x	1	BJ-EST	2005ENV02		95
220/221	M4158	3/2/05	9:47:00	H2O									x	x	x							1	M3.1	2005ENV02		95
	M4158NUTSHG	3/2/05	9:47:00	H2O															x	x		1	M3.1	2005ENV02		95
	M4158SAL	3/2/05	9:47:00	H2O																	x	1	M3.1	2005ENV02		95
222/223	M4159	3/2/05	11:17:00	H2O									x	x	x				x	x		1	M6	2005ENV02		95
	M4159NUTSHG	3/2/05	11:17:00	H2O															x	x		1	M6	2005ENV02		95
	M4159SAL	3/2/05	11:17:00	H2O																	x	1	M6	2005ENV02		95
dup M4160	~~M4160~~	3/2/05	9:58:00	H2O	224/225								x	x	x							1	DY01	2005ENV02		95
M4160SAL	~~M4160SAL~~	3/2/05	9:58:00	H2O																	x	1	DY01	2005ENV02		95
230/231	M4162	3/2/05	8:40:00 AM	H2O									x	x	x							1	PL04	2005ENV02		95
	M4162SAL	3/2/05	8:40:00 AM	H2O																	x	1	PL04	2005ENV02		95
226/227	M4163	3/2/05	9:31:00	H2O									x	x	x							1	PL05	2005ENV02		95
	M4163SAL	3/2/05	9:31:00	H2O																	x	1	PL05	2005ENV02		95
228/229	M4164	3/2/05	10:51:00	H2O									x	x	x							1	PL06	2005ENV02		95
	M4164SAL	3/2/05	10:51:00	H2O																	x	1	PL06	2005ENV02		95

m4 = m4153
m4 DUP = m4154

Relinquished by: Vickie Whitney 3/2/05
Signature Date Date Time
Printed Name Company Company

Received by: JmBrauer 3/2/05 1519
Signature Date Time
JmBrauerdenberger Battelle
Printed Name Company

Relinquished by:
Signature Date Date Time
Printed Name Company Company

Received by:
Signature Date Time
Printed Name Company

Total # of Containers 30
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

COC Number: 2005ENV0 2005ENV02 **CHAIN OF CUSTODY FORM** Page: 2 of 2

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Miller
Phone: (360) 681-3668

Date:
Sample Team: Whitney, Walpole, Beckwith (PSNS)
Event: Sinclair Marine and Nearshore

Analyze parameters per Table 2-1 in ENVVEST QAPP

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382
ATTN: Jill Brandenburg

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date	Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	NUTRIENTS	Hg	OSAL (ocean Salinity)	No. of Battelle containers	StationID	Cruise or Storm#	Jar#	% Full
	M4150-TS	3/2/05	6:53:00	H2O			x	x														1	P3	2005ENV02		95
	M4151-TS	3/2/05	7:10AM	H2O			x	x														1	P2	2005ENV02		95
	M4152-TS	3/2/05	7:52:00	H2O			x	x														1	P1	2005ENV02		95
	~~M4153-TS~~	3/2/05	8:23:00	H2O			x	x														1	M4	2005ENV02		95
	M4154-TS DUP	3/2/05	8:23:00	H2O			x	x														1	M4 DUP	2005ENV02		95
	M4155-TS	3/2/05	8:46:00	H2O			x	x														1	M3.3	2005ENV02		95
	M4156-TS	3/2/05	9:00:00	H2O			x	x														1	SN12	2005ENV02		95
	M4157-TS	3/2/05	9:14:00	H2O			x	x														1	BJ-EST	2005ENV02		95
	M4158-TS	3/2/05	9:47:00	H2O			x	x														1	M3.1	2005ENV02		95
	M4159-TS	3/2/05	9:58:00	H2O			x	x														1	M6	2005ENV02		95
	M4160-TS	3/2/05	11:17:00	H2O			x	x														1	DY01	2005ENV02		95
	M4162-TS	3/2/05	8:40:00 AM	H2O			x	x														1	PL04	2005ENV02		95
	M4163-TS	3/2/05	9:31:00	H2O			x	x														1	PL05	2005ENV02		95
	M4164-TS	3/2/05	10:51:00	H2O			x	x														1	PL06	2005ENV02		95

Original correct JMB

Relinquished by: Beckwith Whitney 3/2/05 1300
Signature Date Date Time
Printed Name Compan Company

Received by: JM Brand 3/2/05 1519
Signature Date Time
JM BrandenBurg Battelle
Printed Name Company

Total # of Containers 14
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Relinquished by:
Signature Date Date Time
Printed Name Compan Company

Received by:
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

COC Number: 2005ENV03 **CHAIN OF CUSTODY FORM** Page: 1 of 2

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets

Date: March 21, 2005
Sample Team: Whitney, Walpole, Beckwith (PSNS)
Analyze parameters per Table 2-1 in ENVVEST QAPP

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date	Collection Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	NUTRIENTS	Hg	OSAL (ocean Salinity)	No. of Battelle containe	StationID	Cruise or Storm#	TME/DME Jar#	% Full
	M4200	3/21/05	6:46:00	H2O									x	x	x	X						1	P3	2005ENV03	239/240	95
	M4200SAL	3/21/05	6:46:00	H2O																	x	1	P3	2005ENV03		95
	M4201	3/21/05	7:10:00	H2O									x	x	x	X						1	P2	2005ENV03	241/242	95
	M4201SAL	3/21/05	7:10:00	H2O																	x	1	P2	2005ENV03		95
	M4202	3/21/05	7:47:00	H2O									x	x	x	X						1	P1	2005ENV03	243/244	95
	M4202SAL	3/21/05	7:47:00	H2O																	x	1	P1	2005ENV03		95
	M4203	3/21/05	8:29:00	H2O									x	x	x	X						1	M4	2005ENV03	245/246	95
	M4203NUTSHG	3/21/05	8:29:00	H2O															x	x		1	M4	2005ENV03		95
	M4203SAL	3/21/05	8:29:00	H2O																	x	1	M4	2005ENV03		95
	M4204	3/21/05	8:44:00	H2O									x	x	x	X						1	M3.3	2005ENV03	247/248	95
	M4204SAL	3/21/05	8:44:00	H2O																	x	1	M3.3	2005ENV03		95
	M4205	3/21/05	8:59:00	H2O									x	x	x	X						1	SN12	2005ENV03	249/250	95
	M4205SAL	3/21/05	8:59:00	H2O																	x	1	SN12	2005ENV03		95
	M4206	3/21/05	8:59:00	H2O									x	x	x	X						1	SN12 DUP	2005ENV03	251/252	95
	M4206SAL	3/21/05	8:59:00	H2O																	x	1	SN12 DUP	2005ENV03		95
	M4207	3/21/05	9:13:00	H2O									x	x	x	X						1	BJ-EST	2005ENV03	253/254	95
	M4207SAL	3/21/05	9:13:00	H2O																	x	1	BJ-EST	2005ENV03		95
	M4208	3/21/05	9:40:00	H2O									x	x	x	X						1	M3.1	2005ENV03	255/256	95
	M4208NUTSHG	3/21/05	9:40:00	H2O															x	x		1	M3.1	2005ENV03		95
	M4208SAL	3/21/05	9:40:00	H2O																	x	1	M3.1	2005ENV03		95
	M4209	3/21/05	10:51:00	H2O									x	x	x	X			x	x		1	M6	2005ENV03	257/258	95
	M4209NUTSHG	3/21/05	10:51:00	H2O															x	x		1	M6	2005ENV03		95
	M4209SAL	3/21/05	10:51:00	H2O																	x	1	M6	2005ENV03		95
	M4210	3/21/05	9:52:00	H2O									x	x	x	X						1	DY01	2005ENV03	259/260	95
	M4210SAL	3/21/05	9:52:00	H2O																	x	1	DY01	2005ENV03		95
	M4212	3/21/05	8:15:00	H2O									x	x	x	X						1	PL07	2005ENV03	261/262	95
	M4212SAL	3/21/05	8:15:00	H2O																	x	1	PL07	2005ENV03		95
	M4213	3/21/05	9:25:00	H2O									x	x	x	X						1	PL08	2005ENV03	263/264	95
	M4213SAL	3/21/05	9:25:00	H2O																	x	1	PL08	2005ENV03		95
	M4214	3/21/05	10:30:00	H2O									x	x	x	X						1	PL09	2005ENV03	265/266	95
	M4214SAL	3/21/05	10:30:00	H2O																	x	1	PL09	2005ENV03		95

Total # of Containers 30

Relinquished by: Vickie Whitney 3/21/05 2:09
Signature Date Time
Vickie Whitney
Printed Name Company PSNS

Received by: JMBrandenberger 3/21/05 2:09
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

COC Number: 2005ENV03 **CHAIN OF CUSTODY FORM** Page: 2 of 2

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets

Date:March 21, 2005
Sample Team: Whitney, Walpole, Beckwith (PSNS)
Analyze parameters per Table 2-1 in ENVVEST QAPP

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date	Collection Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	NUTRIENTS	Hg	OSAL (ocean Salinity)	No. of Battelle containe	StationID	Cruise or Storm#	Jar#	% Full
	M4200-TS	3/21/05	6:46:00	H2O			x	x														1	P3	2005ENV03		95
	M4201-TS	3/21/05	7:10:00	H2O			x	x														1	P2	2005ENV03		95
	M4202-TS	3/21/05	7:47:00	H2O			x	x														1	P1	2005ENV03		95
	M4203-TS	3/21/05	8:29:00	H2O			x	x														1	M4	2005ENV03		95
	M4204-TS	3/21/05	8:44:00	H2O			x	x														1	M3.3	2005ENV03		95
	M4205-TS	3/21/05	8:59:00	H2O			x	x														1	SN12	2005ENV03		95
	M4206-TS	3/21/05	8:59:00	H2O			x	x														1	SN12 DUP	2005ENV03		95
	M4207-TS	3/21/05	9:13:00	H2O			x	x														1	BJ-EST	2005ENV03		95
	M4208-TS	3/21/05	9:40:00	H2O			x	x														1	M3.1	2005ENV03		95
	M4209-TS	3/21/05	10:51:00	H2O			x	x														1	M6	2005ENV03		95
	M4210-TS	3/21/05	9:52:00	H2O			x	x														1	DY01	2005ENV03		95
	M4212-TS	3/21/05	8:15:00	H2O			x	x														1	PL07	2005ENV03		95
	M4213-TS	3/21/05	9:25:00	H2O			x	x														1	PL08	2005ENV03		95
	M4214-TS	3/21/05	10:30:00	H2O			x	x														1	PL09	2005ENV03		95

Relinquished by: Vickie Whitney 3/21/05 2:09
Signature Date Time
Vickie Whitney PSNS
Printed Name Company

Received by: JM Brandenberger 3/21/05 2:09
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Total # of Containers 14
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

Cooler Temp 6.0 °C
Cooler Temp 5.9 °C
Cooler Temp 5.6°C

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/21/05
Page: 3 of 8
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road, Sequim, WA 98382
Attention: Jill Brandenberger

Observations, Instructions

Cooler Temp = 2.0 °C
Cooler Temp = 5.8 °C
Cooler Temp = 4.7 °C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1209-A	3/19/05 1254	W																			B-ST28	2005Mar19Z	1	100
	T1209-B	3/19/05 1554	W																			B-ST28		2	100
	T1209-C	3/19/05 1854	W																			B-ST28		3	95
	T1209-D	3/19/05 2154	W																			B-ST28		4	100
	T1209-E	3/20/05 0054	W																			B-ST28		5	100
	T1209-F	3/20/05 0354	W																			B-ST28		6	100
	T1209-G	3/20/05 0654	W																			B-ST28		7	100
	T1209-H	3/20/05 0954	W																			B-ST28		8	80
																						THF ONE	ONE		
	T1209 composite	3/20/05		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				267+268	309		

Relinquished by: JD Estes — Signature — 3/21/05 — Date — 0900 — Time — TEC — Company
Received by: Jm Brandenberger — Signature — 3/21/05 — Date — 0900 — Time — Battelle — Company

Relinquished by: _____ Signature Date Time _____ Printed Name Company
Received by: _____ Signature Date Time _____ Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/21/05
Page: 4 of 8
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Miller
Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road, Sequim, WA 98382
Attention: Jill Brandenberger

Observations, Instructions

Cooler Temp = 4.0°C
Cooler Temp = 5.4°C
Cooler Temp = 4.7°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1210-A	3/19/05 1308	W																			B-ST/CSO16	2005Mar192	1	100
	T1210-B	3/19/05 1608	W																			B-ST/CSO16		2	100
	T1210-C	3/19/05 1908	W																			B-ST/CSO16		3	100
	T1210-D	3/19/05 2208	W																			B-ST/CSO16		4	100
	T1210-E	3/20/05 0108	W																			B-ST/CSO16		5	100
	T1210-F	3/20/05 0408	W																			B-ST/CSO16		6	100
	T1210-G	3/20/05 0708	W																			B-ST/CSO16		7	100
	T1210-H	3/20/05 1008	W																			B-ST/CSO16		8	100
																						TRE/DNE	OIRT		
	TIRO COMPOSITE	3/21/05	W	x	x	x	x	x	x	x	x	x	x	x	x	x	x					269 270	310		

Relinquished by:
Signature — Date 3/21/05 — Time 0900
JDOSW — TEC
Printed Name — Company

Received by:
Signature — Date 3/21/05 — Time 0900
Jm Brandenberger — Battelle
Printed Name — Company

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/21/05
Page: 5 of 8
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Cooler Temp = 2.8°C
Cooler Temp = 5.4°C
Cooler Temp = 5.4°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1211-A	3/19/05 1238	W																			PSNS015	2005Mar19Z	1	100
	T1211-B	3/19/05 1538	W																			PSNS015		2	100
	T1211-C	3/19/05 1838	W																			PSNS015		3	100
	T1211-D	3/19/05 2138	W																			PSNS015		4	100
	T1211-E	3/20/05 0038	W																			PSNS015		5	100
	T1211-F	3/20/05 0338	W																			PSNS015		6	100
	T1211-G	3/20/05 0638	W																			PSNS015		7	100
	T1211-H	3/20/05 0938	W																			PSNS015		8	85
																						TIME	TIME	ORG	
	T1211 COMPOSITE	3/21/05	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				271	272	311	

Relinquished by: JD Estes, TEC — 3/21/05 0900
Signature / Date / Time
Printed Name / Company

Received by: Jm Brandenberger, Battelle — 3/21/05 0900
Signature / Date / Time
Printed Name / Company

Relinquished by:
Signature / Date / Time
Printed Name / Company

Received by:
Signature / Date / Time
Printed Name / Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/21/05
Page: 6 of 8
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Cooler Temp = 3.4°C
Cooler Temp = 4.3°C
Cooler Temp = 4.7°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1212-A	3/19/05 1230	W																			PSNS124	2005Mar19Z	1	100
	T1212-B	3/19/05 1530	W																			PSNS124		2	100
	T1212-C	3/19/05 1830	W																			PSNS124		3	100
	T1212-D	3/19/05 2130	W																			PSNS124		4	100
	T1212-E	3/20/05 0030	W																			PSNS124		5	100
	T1212-F	3/20/05 0330	W																			PSNS124		6	100
	T1212-G	3/20/05 0630	W																			PSNS124		7	100
	T1212-H	3/20/05 0930	W																			PSNS124		8	70
	TIRE COMPOSITE	3/21/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				THC/BTXE	ORG		
																						273	274	312	

Relinquished by:
Signature: JW
Date: 3/21/05
Time: 0900
Printed Name: JD Estes
Company: TEC

Received by:
Signature: JMBrandenberger
Date: 3/21/05
Time: 0900
Printed Name: JM Brandenberger
Company: Battelle

Relinquished by:
Signature
Date
Time
Printed Name
Company

Received by:
Signature
Date
Time
Printed Name
Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/21/05
Page: 7 of 8
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Cooler Temp. = 3.4°C
Cooler Temp = 3.5°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1213-A	3/19/05 1227	W																			PSNS126	2005Mar19 2	1	100
	T1213-B	3/19/05 1527	W																			PSNS126		2	100
	T1213-C	3/19/05 1827	W																			PSNS126		3	95
	T1213-D	3/19/05 2127	W																			PSNS126		4	100
	T1213-E	3/20/05 0027	W																			PSNS126		5	100
	T1213-F	3/20/05 0327	W																			PSNS126		6	100
	T1213-G	3/20/05 0627	W																			PSNS126		7	100
	T1213-H	3/20/05 0927	W																			PSNS126		8	60 ~~85~~
																						TME/OME	ORG		
	T1213 composite	3/21/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				275/276	313		

Relinquished by:
Signature — 3/21/05 — 0900
Date — Time
JS ESEC — TEC
Printed Name — Company

Received by:
JM Brandenberger — 3/21/05 — 0900
Signature — Date — Time
Jm Brandenberger — Battelle
Printed Name — Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/21/05
Page: 1 of 8
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Cooler Temp = 4.6°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1207-A	3/19/05 1240	W																			BL	2005Mar19Z	1	100
	T1207-B	3/19/05 1840	W																			BL		2	100
	T1207-C	3/20/05 0040	W																			BL		3	100
	T1207-D	3/20/05 0640	W																			BL		4	85
	T1207 Composite	3/21/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				TME/DME 277/278	ORGS 314		

Not Required
jmm 3/22/05

Relinquished by:	Date	Time	Received by:	Date	Time
JD Estes (Signature)	3/21/05	0900	JM Brandenberger (Signature)	3/21/05	0900
JD Estes (Printed Name)	TEC		JM Brandenberger (Printed Name)	Battelle	

Relinquished by:	Date	Time	Received by:	Date	Time
Signature			Signature		
Printed Name	Company		Printed Name	Company	

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/21/05
Page: 2 of 8
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Miller
Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road, Sequim, WA 98382
Attention: Jill Brandenberger

Observations, Instructions

DME #280
TME #279

Cooler Temp = 5.0°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1208-A	3/19/05 1236	W																			OC	2005Mar192	1	100
	T1208-B	3/19/05 1836	W																			OC	↓	2	100
	T1208-C	3/20/05 0036	W																			OC		3	100
	T1208-D	3/20/05 0636	W																			OC		4	90
																						TME/DME 279/280	ORGS 315		
Composite	T1208	3/21/05 1240		X	X	X	X	X	X	X	X	X	X	X	X	X		X							
																		Not Required					JMB 3/22/05		

Relinquished by: JM — 3/21/05 0900
Signature — Date — Time
JD Estes — TEC
Printed Name — Company

Received by: JM Brandenberger — 3/21/05 0900
Signature — Date — Time
JM Brandenberger — Battelle
Printed Name — Company

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/21/05
Page: 8 of 8
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Mille
Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382
Attention: Jill Brandenberge

Observations, Instruction:

Cooler Temp = 2.0°C
Cooler Temp = 5.6°C
Cooler Temp = 3.7°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar# ~~Grab#~~	%Full
	T1221-A	3/19/05 1318	W																			B-ST12	2005MarA2	1	80
	T1221-B	3/19/05 1618	W																			B-ST12		2	100
	T1221-C	3/19/05 1918	W																			B-ST12		3	100
	T1221-D	3/19/05 2218	W																			B-ST12		4	100
	T1221-E	3/20/05 0218	W																			B-ST12		5	100
	T1221-F	3/20/05 0518	W																			B-ST12		6	100
	T1221-G	3/20/05 0818	W																			B-ST12		7	100
	T1221-H	3/20/05 1018	W																			B-ST12		8	90
																						TMF/DME ORG			
	T1221 Comp	3/21/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				281/282	320		

Relinquished by: [signature] 3/21/05 0900
Signature Date Time
JD Estes TEC
Printed Name Company

Received by: [signature] 3/21/05 0900
Signature Date Time
Jim Brandenberger Battelle
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date:

Page: ____1_____ of ___ 1

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Miller
Phone: (360) 681-3668

Group: Karcher WWTP
Event: ENVVEST Storm Sampling FY05

Analyze parameters per Table 2-1 in ENVVEST QAPP

Cooler Temp = 6.0°C

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	grab		No. of containers	StationID	Storm#	Jar#	% Full
	G1210-A	3/19/05 0130	H2O																x		1	KAR-WWTP	#2 Sinclair		95
	G1210-B	3/19/05 1600	H2O																x		1	KAR-WWTP	#1 Sinclair		95
	G1210-C	3/19/05 1600	H2O																x		1	KAR-WWTP	#2 Sinclair		95
																						TME/OME			
Composite	G1210	3/21/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				283/284			

Relinquished by:
Signature 3/21/05 Date 1700 Time
Bryan Gallagher Karcher Creek
Printed Name Company

Received by:
Signature 3/21/05 Date Time
JM Brandenberger Battelle
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 3/21/05

Page: 1 of 3

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road, Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Cooler Temp = 2.0°C

#2318

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	DNE/TNE
	G1214-A	3/19/05 1428	W			X	X						X	X	X	X						WADOT-01A	2005Mar192	1	286/285
	G1214-B	3/19/05 1815	W			X	X						X	X	X	X						WADOT-01A	↓	2	288/287
	G1214-C	3/20/05 1050	W			X	X						X	X	X	X						WADOT-01A	↓	3	290/289
	G1214-B-Dup	3/19/05 1815	W			X	X						X	X	X	X						WADOT-01A	2005Mar192	2-Dup	316/317
	G1214-C-Dup	3/20/05 1052	W			X	X						X	X	X	X						WADOT-01A	↓	3-Dup	318/319

Relinquished by: JL Estes — 3/21/05 — 0900 — TEC

Signature / Date / Time / Printed Name / Company

Received by: JMBrandenberger — 3/21/05 — 0900 — Battelle

Signature / Date / Time / Printed Name / Company

Relinquished by: _____ Signature / Date / Time / Printed Name / Company

Received by: _____ Signature / Date / Time / Printed Name / Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/21/05
Page: 2 of 3
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Cooler Temp = 2.0°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	COC# 7318 DME/DME
	G1216-A	3/19/05 1420	W			X	X						X	X	X	X						WADOT-02	2005Mar19Z	1	293/298
	G1216-B	3/19/05 1800	W			X	X						X	X	X	X						WADOT-02	↓	2	299/300
	G1216-C	3/20/05 1035	W			X	X						X	X	X	X						WADOT-02	↓	3	301/302

Relinquished by:
JA Thom 3/21/05 0900
Signature Date Time
JD Estes TEC
Printed Name Company

Received by:
JM Brandenberger 3/21/05 0900
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 3/21/05

Page: 3 of 3

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Cooler Temp = 20°C

CF# 2318

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	ONE / TWO
	G1217-A	3/19/05 1912	W																			WADOT-03	2005Mar192	1	304 303
	G1217-B	3/19/05 1805	W																			WADOT-03	↓	2	305 305
	G1217-C	3/20/05 1040	W																			WADOT-03	↓	3	308 307
																									306/305

Relinquished by: [signature] 3/21/05 0900
Signature Date Time
JD Estes TEC
Printed Name Company

Received by: [signature] 3/21/05 0900
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 3/26/05

Page: 1 of 1

COC Number:

G1210 was duplicated — Changed to G1220 (discovered in data reporting; collection dates seperate the duplicate IDs)

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road, Sequim, WA 98382
Attention: Jill Brandenberger

Testing Parameters

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	HISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	Observations, Instructions: StationID	Storm#	Grab#	Estimated Flow (CFS)
	G1210 composite			X	X	X	X	X	X	X	X	X	X	X	X	X	X					KAR-WWTP	17-Jan-05		
				X	X	X	X	X	X	X	X	X	X	X	X	X	X					KAR-WWTP	17-Jan-05		
				X	X	X	X	X	X	X	X	X	X	X	X	X	X					KAR-WWTP	17-Jan-05		
	G1210-A	3/26/05 0800																				KAR-WWTP	23-Mar-05	#1	2.89 CFS
	G1210-B	3/26/05 1100																				KAR-WWTP	23-Mar-05	#2	5.23 CFS
	G1210-C	3/26/05 1500																				KAR-WWTP	23-Mar-05	#3	4.80 CFS

Relinquished by: Signature — Date 3/28/05 — Time 1300
Printed Name: Bryan Gallagher — Company: Karcher Creek

Received by: Signature — Date 3/28/05 — Time 1240
Printed Name — Company

Relinquished by: Signature — Date 3/29/2005 — Time
Printed Name — Company

Received by: Signature — Date — Time
Printed Name — Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

Relinquished to Battelle 3/28/05

Jan 17 05 12:28p Dr. R.K. Johnston 360-824-6279 p.1

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/27/05
Page: 5 of 7
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Mille
Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382
Attention: Jill Brandenberge

Observations, Instructions

Cooler Temp = 2.0°C
Cooler Temp = 5.0°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	Pesticides	No. of containers	StationID	Storm#	Jar#	%Full
	T1305-A	3/26/05 0140	W																	1	SW6	2005MAR26	1	100
	T1305-B	3/26/05 0440	W																	1	SW6		2	
	T1305-C	3/26/05 0740	W																	1	SW6		3	
	T1305-D	3/26/05 1040	W																	1	SW6		4	
	T1305-E	3/26/05 1340	W																	1	SW6		5	
	T1305-F	3/26/05 1640	W																	1	SW6		6	
	~~T1305-G~~		~~W~~																	~~1~~	~~SW6~~		~~7~~	X
	~~T1305-H~~		~~W~~																	~~1~~	~~SW6~~		~~8~~	X
																					TNE	TNE	ONG	
	COMPOSITE T1305		W	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		321	322	324	

Relinquished by:	Date	Time	Received by:	Date	Time
Signature	3/27/05	1245	Signature	3/27/05	1245
Brian Rupert	TEC		JM Brandenberger	Battelle	
Printed Name	Company		Printed Name	Company	

Relinquished by:	Date	Time	Received by:	Date	Time
Signature			Signature		
Printed Name	Company		Printed Name	Company	

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/27/05
Page: 6 of 7
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Mille
Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382
Attention: Jill Brandenberge

Observations, Instruction:

Cooler Temp = 5.2°C
Cooler Temp = 5.4°C
Cooler Temp = 5.0°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	Particle Size	No. of containers	StationID	Storm#	Jar#	%Full
	T1306-A	3/26/05 0136	W																	1	B-ST12	2005MAR261	1	100
	T1306-B	3/26/05 0436	W																	1	B-ST12		2	
	T1306-C	3/26/05 0736	W																	1	B-ST12		3	
	T1306-D	3/26/05 1036	W																	1	B-ST12		4	
	T1306-E	3/26/05 1336	W																	1	B-ST12		5	
	T1306-F	3/26/05 1636	W																	1	B-ST12		6	
	~~T1306-G~~		~~W~~																		~~B-ST12~~		~~7~~	X
	~~T1306-H~~		~~W~~																		~~B-ST12~~		~~8~~	X
	COMPOSITE 1306		W	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		TNE	DAE	ORG	
																					323	324	376	

Relinquished by:
Signature: [signature] Date: 3/27/05 Time: 1245
Printed Name: Brian Rupert Company: TEC

Received by:
Signature: [signature] Date: 3/27/05 Time: 1245
Printed Name: Jim Brandenberger Company: Battelle

Relinquished by:
Signature: Date: Time:
Printed Name: Company:

Received by:
Signature: Date: Time:
Printed Name: Company:

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 3/27/05

Page: 1 of 7

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Mille

Phone: (360) 681-366

As Per Table 2-1 in QAPP

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382

Attention: Jill Brandenberge

Testing Parameters

Observations, Instruction

Cooler Temp = 5.0 °C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	Pesticides	No. of containers	StationID	Storm#	Jar#	%Full
	T1301-A	3/26/05 0142	W																	1	BA	2005MAR26	1	100
	T1301-B	3/26/05 0742	W																	1	BA	↓	2	100
	T1301-C	3/26/05 1342	W																	1	BA	↓	3	75
	~~T1301-D~~		~~W~~																	~~1~~	~~BA~~		~~4~~	NA
	Composite																							
	T1301	3/27/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		THE 327	DNE 328	ORG 380	

Relinquished by:
Signature: Brian Rupert
Date: 3/27/05 Time: 1245
Printed Name: Brian Rupert Company: TEC

Received by:
Signature: Jm Brandenberger
Date: 3/27/05 Time: 1245
Printed Name: Jm Brandenberger Company: Battelle

Relinquished by:
Signature: Date: Time:
Printed Name: Company:

Received by:
Signature: Date: Time:
Printed Name: Company:

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 3/27/05

Page: 2 of 7

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Mille

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382

Attention: Jill Brandenberge

Observations, Instruction:

Cooler Temp = 5.0°C
Cooler Temp = 5.4°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	Pesticides	No. of containers	StationID	Storm#	Jar#	%Full
	T1302-A	3/26/05 0133	W																	1	CC	2005MAR26	1	100
	T1302-B	3/26/05 0733	W																	1	CC	↓	2	↓
	T1302-C	3/26/05 1333	W																	1	CC		3	
	T1302-D	3/26/05 1933	W																	1	CC		4	
	T1302-E	3/27/05 0133	W																	1	CC		5	
	Composite T1302			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		THE 329	DHE 330	ORG 382	

Relinquished by: 3/27/05 1245
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: JM Brandenberger 3/27/05 1245
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/27/05
Page: 3 of 7
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Mille
Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382
Attention: Jill Brandenberge

Observations, Instruction

Cooler Temp = 4.2°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1303-A	3/26/05 0834	W																		1	SC	2005MAR26	1	100
	T1303-B	3/26/05 1434	W																		1	SC		2	
	T1303-C	3/26/05 2034	W																		1	SC		3	
	T1303-D	3/27/05 0234	W																		1	SC		4	
	Composite: T1303	3/27/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				TME 331	DME 332	ORG	
																		canceled per BKJ 3/27/05							

Relinquished by: _____ 3/27/05 1245
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: _____ 3/27/05 1245
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Relinquished by: _____
Signature Date Time
Printed Name Company

Received by: _____
Signature Date Time
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 3/27/05

Page: 4 of 7

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Mille

Phone: (360) 681-366E

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382

Attention: Jill Brandenberge

Observations, Instructions

Cooler Temp = 2.0°C
Cooler Temp = 3.8°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	PESTicides	No. of containers	StationID	Storm#	Jar#	%Full
	T1304-A	3/26/05 0056	W																	1	CH	2005MAR26I	1	100
	T1304-B	3/26/05 0656	W																	1	CH	↓	2	↓
	T1304-C	3/26/05 1256	W																	1	CH		3	
	T1304-D	3/26/05 1856	W																	1	CH		4	
	T1304-E	3/27/05 0056	W																	1	CH	↓	5	↓
	Composite																				TME/DME/ORG			
	T1304	3/27/05		X	X	X	X	X	X	X	X	X	X	Y	X	X	X	X	X		~~321~~ 333	~~322~~ 334	~~324~~ 386	JM3 3/28/05

Relinquished by:

3/27/05 1245

Signature Date Time

Brian Rupert TEC

Printed Name Company

Received by:

JM Brandenberger 3/27/05 1245

Signature Date Time

JM Brandenberger Battelle

Printed Name Company

Relinquished by:

Signature Date Time

Printed Name Company

Received by:

Signature Date Time

Printed Name Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 3/27/05
Page: 7 of 7
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlet
Project Manager: Martin C. Mille
Phone: (360) 681-366

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382
Attention: Jill Brandenberge
Observations, Instruction

Cooler Temp = 5.2°C

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	Pesticides	No. of containers	StationID	Storm#	Grab#	TME	DME
	T-1307-A	3/26/05 0115	W	X	X	X	X	X					X	X	X	X				1	B-ST01	2005MAR26	1	337	338
	T-1307-B	3/26/05 0945	W	X	X	X	X	X					X	X	X	X				1	B-ST01	↓	2	339	340
	T-1307-C	3/26/05 1845	W	X	X	X	X	X					X	X	X	X				1	B-ST01	↓	3	341	342
	Composite of T1307	3/27/05							X	X	X	X					X	X	X				ORG 389	Hg 371	

Relinquished by: [signature] 3/27/05 1245
Signature Date Time
Brian Rupert TEC
Printed Name Company

Received by: [signature] 3/27/05 1245
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 3/28/2005

Page: 1 of 1

Battelle
Marine Sciences Laboratory
1529 W. Sequim Bay Road
Sequim, Washington 98382

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Cooler # _____ of _____

Laboratory: Manchester

Address:

Attention: Stewart Magoon

Testing Parameters

Sample ID	Collection Date	Collection Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	O-Phosphate	BOD	TPH	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Pesticides	No. of containers	Observations, Instructions / Station ID
T1305	3/26/2005	140	fresh water																	x	2	SW6
T1306	3/26/2005	136	fresh water																	x	2	B-ST12
T1301	3/26/2005	142	fresh water																	x	1	BA
T1302	3/26/2005	133	fresh water																	x	3	CC
T1304	3/26/2005	56	fresh water																	x	3	CH
T1307	3/26/2005	115	fresh water																	x	1	B-ST01 (Limited Volume ~2L)

Total # of Containers= 12

Relinquished by:
JM Brandenberger 3/28/05 1410
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Received by:
Vickie Whitney 3/28/05 1413
Signature Date Time
Printed Name Company

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

COC Number: 2005ENV04 **CHAIN OF CUSTODY FORM** Page: 1 of 2

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets

Date:
Sample Team: Whitney, Walpole, Beckwith (PSNS)
Analyze parameters per Table 2-1 in ENVVEST QAPP

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road

Lab. Use only: Lab ID	Sample ID	DATE	TIME	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	NUTRIENTS	Hg	OSAL (ocean Salinity)	No. of Battelle containe	Observations, Instructions StationID	Cruise or Storm#	Jar#	% Full
	M4250	03/28/2005	6:53:00 AM	H2O									x	x	x							1	P3	2005ENV04		95
	M4250SAL	03/28/2005	6:53:00 AM	H2O																	x	1	P3	2005ENV04		95
	M4251	03/28/2005	6:37:00 AM	H2O									x	x	x							1	P2	2005ENV04		95
	M4251SAL	03/28/2005	6:37:00 AM	H2O																	x	1	P2	2005ENV04		95
	M4252	03/28/2005	7:21:00 AM	H2O									x	x	x							1	P1	2005ENV04		95
	M4252SAL	03/28/2005	7:21:00 AM	H2O																	x	1	P1	2005ENV04		95
	M4253	03/28/2005	8:14:00 AM	H2O									x	x	x							1	M4	2005ENV04		95
	M4253NUTSHG	03/28/2005	8:14:00 AM	H2O															x	x		1	M4	2005ENV04		95
	M4253SAL	03/28/2005	8:14:00 AM	H2O																	x	1	M4	2005ENV04		95
	M4254	03/28/2005	8:57:00 AM	H2O									x	x	x							1	M3.3	2005ENV04		95
	M4254SAL	03/28/2005	8:57:00 AM	H2O																	x	1	M3.3	2005ENV04		95
	M4255	03/28/2005	9:10:00 AM	H2O									x	x	x							1	SN12	2005ENV04		95
	M4255SAL	03/28/2005	9:10:00 AM	H2O																	x	1	SN12	2005ENV04		95
	M4256	03/28/2005	9:22:00 AM	H2O									x	x	x							1	BJ-EST	2005ENV04		95
	M4256SAL	03/28/2005	9:22:00 AM	H2O																	x	1	BJ-EST	2005ENV04		95
	M4257	03/28/2005	9:42:00 AM	H2O									x	x	x							1	M3.1	2005ENV04		95
	M4257NUTSHG	03/28/2005	9:42:00 AM	H2O															x	x		1	M3.1	2005ENV04		95
	M4257SAL	03/28/2005	9:42:00 AM	H2O																	x	1	M3.1	2005ENV04		95
	M4258	03/28/2005	9:42:00 AM	H2O									x	x	x							1	M3.1 DUP	2005ENV04		95
	M4258NUTSHG	03/28/2005	9:42:00 AM	H2O															x	x		1	M3.1 DUP	2005ENV04		95
	M4258SAL	03/28/2005	9:42:00 AM	H2O																	x	1	M3.1 DUP	2005ENV04		95
	M4259	03/28/2005	10:57:00 AM	H2O									x	x	x		NA		~~x~~	~~x~~		1	M6	2005ENV04		95
	M4259SAL	03/28/2005	10:57:00 AM	H2O																	x	1	M6	2005ENV04		95
	M4260	03/28/2005	10:02:00 AM	H2O									x	x	x							1	DY01	2005ENV04		95
	M4260SAL	03/28/2005	10:02:00 AM	H2O																	x	1	DY01	2005ENV04		95
	M4262	03/28/2005	7:54:00 AM	H2O									x	x	x							1	PL10	2005ENV04		95
	M4262SAL	03/28/2005	7:54:00 AM	H2O																	x	1	PL10	2005ENV04		95
	M4263	03/28/2005	8:31:00 AM	H2O									x	x	x							1	PL11	2005ENV04		95
	M4263SAL	03/28/2005	8:31:00 AM	H2O																	x	1	PL11	2005ENV04		95
	M4264	03/28/2005	8:46:00 AM	H2O									x	x	x							1	PL12	2005ENV04		95
	M4264SAL	03/28/2005	8:45:00 AM	H2O																	x	1	PL12	2005ENV04		95

Relinquished by: Vickie Whitney 3/28/05 14:11
Signature Date Time
Printed Name Company

Received by: 3/28/05
Signature Date Time
Jim Brandenberger Battelle
Printed Name Company

Total # of Containers 30
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

Cooler temp = 5.2°C

COC Number: 2005ENV04 **CHAIN OF CUSTODY FORM** Page: 2 of 2

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets

Date:
Sample Team: Whitney, Walpole, Beckwith (PSNS)
Analyze parameters per Table 2-1 in ENVVEST QAPP

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Observations, Instructions

Lab. Use only: Lab ID	Sample ID	DATE	TIME	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	NUTRIENTS	Hg	OSAL (ocean Salinity)	No. of Battelle containe	StationID	Cruise or Storm#	Jar#	% Full
	M4250-TS	03/28/2005	6:53:00 AM	H2O			x	x														1	P3	2005ENV04		95
	M4251-TS	03/28/2005	6:37:00 AM	H2O			x	x														1	P2	2005ENV04		95
	M4252-TS	03/28/2005	7:21:00 AM	H2O			x	x														1	P1	2005ENV04		95
	M4253-TS	03/28/2005	8:14:00 AM	H2O			x	x														1	M4	2005ENV04		95
	M4254-TS	03/28/2005	8:57:00 AM	H2O			x	x														1	M3.3	2005ENV04		95
	M4255-TS	03/28/2005	9:10:00 AM	H2O			x	x														1	SN12	2005ENV04		95
	M4256-TS	03/28/2005	9:22:00 AM	H2O			x	x														1	BJ-EST	2005ENV04		95
	M4257-TS	03/28/2005	9:42:00 AM	H2O			x	x														1	M3.1	2005ENV04		95
	M4258-TS	03/28/2005	9:42:00 AM	H2O			x	x														1	M3.1DUP	2005ENV04		95
	M4259-TS	03/28/2005	10:57:00 AM	H2O			x	x														1	M6	2005ENV04		95
	M4260-TS	03/28/2005	10:02:00 AM	H2O			x	x														1	DY01	2005ENV04		95
	M4262-TS	03/28/2005	7:54:00 AM	H2O			x	x														1	PL10	2005ENV04		95
	M4263-TS	03/28/2005	8:31:00 AM	H2O			x	x														1	PL11	2005ENV04		95
	M4264-TS	03/28/2005	8:46:00 AM	H2O			x	x														1	PL12	2005ENV04		95

Relinquished by: Jackie Whitney 3/28/05 1411
Signature Date Time
Printed Name Company

Received by: 3/28/05 1411
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Total # of Containers 14
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

Cooler temp = 3.8°C

SAMPLE CHAIN OF CUSTODY FORM
Date: 30 March 2005
Page: 1 of 1
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlet
Project Manager: Martin C. Mille
Phone: (360) 681-366

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382
Attention: Jill Brandenberge

Observations, Instructions

Lab. Use only: Lab ID		Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	ORG	No. of containers	StationID	Storm#	Isco or Grab	Jar/Grab#	%Full
453	454	T1316-A	3/30/05 1100	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	✓	504		BI-SBC	2005mar30WSBS	Isco	1	100
455	456	T1317-A	3/30/05 1110	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X				BA	2005mar30WSBS	Isco	1	100
457	458	T1318-A	3/30/05 1120	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	✓	506		CC	2005mar30WSBS	Isco	1	100
459	460	T1319-A	3/30/05 1110	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X				SC	2005mar30WSBS	Isco	1	100
461	462	T1320-A	3/30/05 1110	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	✓	508		CH	2005mar30WSBS	Isco	1	100
463	464	T1321-A > comp.	3/30/05 1110	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	✓	509		SW6	2005mar30WSBS	Isco	1	100
		T1321-B >	3/30/05 1410	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X				SW6	2005mar30WSBS	Isco	2	100
465	466	T1322-A > comp	3/30/05 1110	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	✓	510		B-ST12	2005mar30WSBS	Isco	1	100
		T1322-B	3/30/05 1410	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X				B-ST12	2005mar30WSBS	Isco	2	100
467	468	T1323-A	3/30/05 1400	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	✓	511		B-ST01	2005mar30WSBS	Grab	1	100
469	470	T1324-A	3/30/05 1335	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X				GC-SAN	2005mar30WSBS	Grab	1	100
471	472	T1325-A	3/30/05 1305	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X				BL	2005mar30WSBS	Grab	1	100
473	474	T1326-A	3/30/05 1300	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X				OC	2005mar30WSBS	Grab	1	100

Relinquished by: 3/31/05 1930
Signature Date Time
JD Estes TEC
Printed Name Company

Received by: 3/31/05 1930
Signature Date Time
JM Brandenberger Battelle
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:
Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date:

Page: ____1_____ of ___ 1

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Miller
Phone: (360) 681-3668

Group: Bremerton WWTP
Event: ENVVEST Storm Sampling FY05

Analyze parameters per Table 2-1 in ENVVEST QAPP

Cooler Temp = 4.8°C

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	grab		No. of containers	StationID	Storm#	Jar#	% Full
	G1209-A	3-30-05/0838	H2O																x			B-WWTP			95
	G1209_B	3-30-05/1118	H2O																x			B-WWTP			95
	G1209-C	3-30-05/1420	H2O																x			B-WWTP			95
	composite																					TME	DME		
	G1209 (T1327)	3/31/05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				475	476		

Relinquished by:
Arthur F. McCarty 3-31-05 0700
Signature Date Time
ARTHUR McCARTY City of Bremerton
Printed Name Company

Received by:
Vickie Whitney 3/31/05 0925
Signature Date Time
Vickie Whitney PSLS
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
3/31/05 1930
Signature Date Time
Jm Brandenberger Battelle
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: _____

Page: _____ of _____

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Cooler Temp = 4.8°C

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Road, Sequim, WA 98382
Attention: Jill Brandenberger

Testing Parameters

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Grab#	Estimated Flow (CFS)
		~~3/30/05 0830~~		X	X	X	X	X	X	X	X	X	X	X	X	X	X					KAR-WWTP	17-Jan-05	1	~~3.50 CFS~~
				X	X	X	X	X	X	X	X	X	X	X	X	X	X					KAR-WWTP	17-Jan-05		
				X	X	X	X	X	X	X	X	X	X	X	X	X	X					KAR-WWTP	17-Jan-05		
	G1201-A	3/30/05 0830																				~~KAR-WWTP~~	~~30-Mar-05~~	#1	3.50 CFS
	G1201-B	3/30/05 1200																				~~Kar-WWTP~~	~~30-Mar-05~~	#2	3.64 CFS
	G1201-C	3/30/05 1500																				~~Kar-WWTP~~	~~30-Mar-05~~	#3	3.41 CFS
	~~G1210-A-1~~	~~3/31/05 0800~~																				~~KAR-WWTP~~	~~31-Mar-05~~	~~#1~~	
	~~G1210-B-2~~	~~3/31/05~~																				~~Kar-WWTP~~	~~31-Mar-05~~	~~#2~~	
	~~G1210-C-3~~	~~3/31/05~~																				~~KAR-WWTP~~	~~31-Dec-05~~	~~#3~~	
	Composite G1201 (changed to G1221 (duplicate 10%))			X	X	X	X	X	X	X	X	X	X	X	X	X	X					TME 481	OME 482		

Observations, Instructions

Relinquished by: _____ Signature — 3/31/05 Date — 1100 Time — Bryan Gallagher Printed Name — Karcher Creek Company

Received by: Vickie Whitney Signature — 3/31/05 Date — 11:00 Time — Vickie Whitney Printed Name — PSNS Company

Relinquished by: _____ Signature — Date — Time — Printed Name — Company

Received by: _____ Signature — 3/31/05 Date — 1930 Time — Jm Brandenberger Printed Name — Battelle Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

Jan 17 05 12:28p Dr. R.K. Johnston 360-824-6279 p.1

SAMPLE CHAIN OF CUSTODY FORM
Date: 4/2/05
Page: 1 of 8
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Mille
Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382
Attention: Jill Brandenberge

Observations, Instruction:

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	PEST	No. of containers	StationID	Storm#	Jar#	%Full
	T1308-A	3/31/05 1849	W																	1	BI-SBC	2005Mar312	1	100
	T1308-B	4/1/05 0049	W																	1	BI-SBC	↓	2	100
	T1308-C	4/1/05 0649	W																	1	BI-SBC		3	100
	T1308-D	4/1/05 1249	W																	1	BI-SBC	↓	4	10
	Composite																				TME	DME	ORG	
	T1308			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		395	396	447	

Relinquished by: J. Gaudette 1500 4/1/05
Signature Date Time
J. Gaudette TEC
Printed Name Company

Received by: 4/1/05 1500
Signature Date Time
C. Gilmer MSL
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 4/2/05
Page: 2 of 8
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043
Project Name: TMDL in Sinclair & Dyes Inlets
Project Manager: Martin C. Mille
Phone: (360) 681-366

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382
Attention: Jill Brandenberge

Observations, Instruction

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	PEST	No. of containers	StationID	Storm#	Jar#	%Full
	T1309-A	3/31/05 2000	W																	1	BA	2005Mar312	1	100
	T1309-B	4/1/05 0200	W																	1	BA	↓	2	100
	T1309-C	4/1/05 0800	W																	1	BA	↓	3	40
	~~T1309-D~~		~~W~~																		~~BA~~		~~4~~	
	Composite T1309			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		TME 397	OME 398		

Relinquished by: J. Gaudette — 4/1/05 — 1500
Signature — Date — Time
J. Gaudette — TEC
Printed Name — Company

Received by: C. Suslick — 4/1/05 — 1500
Signature — Date — Time
C. Suslick — MSL
Printed Name — Company

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 4/2/05

Page: 3 of 8

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Mille

Phone: (360) 681-366

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382

Attention: Jill Brandenberge

Observations, Instruction

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1310-A	3/31/05 2157	W																		1	CC	2005Mar312	1	100
	T1310-B	4/1/05 0357	W																		1	CC	↓	2	100
	T1310-C	4/1/05 0957	W																		1	CC	↓	3	20
	~~T1310-D~~		~~W~~																		~~1~~	~~CC~~		~~4~~	
	Composite																					TME	DME		
	TB10			X	X	X	X	X	X	X	X	X	X	X	X	X	X					399	400		

Relinquished by:
J. Gaudette — 4/1/05 — 1500
Signature — Date — Time
J. Gaudette — TEC
Printed Name — Company

Received by:
4/1/05 1500
Signature — Date — Time
C. Sussman — MSL
Printed Name — Company

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 4/2/05

Page: 4 of 8

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Mille

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382

Attention: Jill Brandenberge

Observations, Instruction

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	PEST	No. of containers	StationID	Storm#	Jar#	%Full
	T1311-A	3/31/05 2032	W																	1	SC	2005Mar31	2 1	100
	T1311-B	4/1/05 0232	W																	1	SC	↓	2	100
	T1311-C	4/1/05 0832	W																	1	SC	↓	3	40
	~~T1311-D~~		~~W~~																		~~SC~~		~~4~~	
	composite																				TME	DME	ORG	
	T1311			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		401	402	450	

Relinquished by: J. Gaudette — 4/1/05 — 1500
Signature — Date — Time
J. Gaudette — TEC
Printed Name — Company

Received by: C. Sushan — 4/1/05 — 1500
Signature — Date — Time
C. Sushan — MSL
Printed Name — Company

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:
Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 4/7/05
Page: 5 of 8
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Mille

Phone: (360) 681-366

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382

Attention: Jill Brandenberge

Observations, Instruction

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1312-A	3/31/05 1819	W																		1	CH	2005Mar312	1	100
	T1312-B	4/1/05 0019	W																		1	CH	↓	2	100
	T1312-C	4/1/05 0619	W																		1	CH	↓	3	70
	~~T1312-D~~		~~W~~																		~~1~~	~~CH~~		~~4~~	
	composite																					TME	DME		
	T1312			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				403	404		

Relinquished by:
J. Gaudette — 4/1/05 — 1500
Signature — Date — Time
J. Gaudette — TEC
Printed Name — Company

Received by:
C. Suslick — 4/1/05 — 1500
Signature — Date — Time
C. SUSLICK — MSL
Printed Name — Company

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 4/2/05

Page: 6 of 8

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Mille

Phone: (360) 681-366E

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382

Attention: Jill Brandenberge

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1313-A	3/31/05 2036	W																		1	SW6	2005Mar 32	1	100
	T1313-B	3/31/05 2336	W																		1	SW6		2	100
	T1313-C	4/1/05 0236	W																		1	SW6		3	100
	T1313-D	4/1/05 0536	W																		1	SW6		4	100
	T1313-E	4/1/05 0836	W																		1	SW6		5	65
	~~T1313-F~~		~~W~~																		~~1~~	~~SW6~~		~~6~~	
	~~T1313-G~~		~~W~~																		~~1~~	~~SW6~~		~~7~~	
	~~T1313-H~~		~~W~~																		~~1~~	~~SW6~~		~~8~~	
	Composite																					TME	DME	ORG	
	T1313			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				391	392	445	

Relinquished by:
J. Gaudette — 4/1/05 — 1500
Signature — Date — Time
J. Gaudette — TEC
Printed Name — Company

Received by:
C. Sušlica — 4/1/05 — 1500
Signature — Date — Time
C. Sušlica — MSL
Printed Name — Company

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM
Date: 4/2/05
Page: 7 of 8
COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Mille

Phone: (360) 681-366

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL
Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382
Attention: Jill Brandenberge
Observations, Instruction

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Jar#	%Full
	T1314-A	3/31/05 1907	W																		1	B-ST12	2005Mar312	1	100
	T1314-B	3/31/05 2207	W																		1	B-ST12		2	100
	T1314-C	4/1/05 0107	W																		1	B-ST12		3	100
	T1314-D	4/1/05 0407	W																		1	B-ST12		4	95
	T1314-E	4/1/05 0707	W																		1	B-ST12	↓	5	80
	~~T1314-F~~		~~W~~																			~~B-ST12~~		~~6~~	
	~~T1314-G~~		~~W~~																			~~B-ST12~~		~~7~~	
	~~T1314-H~~		~~W~~																			~~B-ST12~~		~~8~~	
	Composite																					TME	DME	ORG	
	T1314			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				393	394	446	

Relinquished by: J. Gaudette — 4/1/05 — 1500
Signature — Date — Time
J. Gaudette — TEC
Printed Name — Company

Received by: C. Sullivan — 4/1/05 — 1500
Signature — Date — Time
C. Sullivan — MSL
Printed Name — Company

Relinquished by:
Signature — Date — Time
Printed Name — Company

Received by:
Signature — Date — Time
Printed Name — Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: 4/2/05

Page: 8 of 8

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Mille

Phone: (360) 681-3668

As Per Table 2-1 in QAPP

Testing Parameters

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Roac
Sequim, WA 98382

Attention: Jill Brandenberge

Observations, Instruction

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics	PEST		No. of containers	StationID	Storm#	Grab#	TME	DME
	T1315-A	3/31/05 1750	W	X	X	X	X	X					X	X	X	X					1	B-ST01	2005Mar312	1	405	406
	T1315-B	4/1/05 0030	W	X	X	X	X	X					X	X	X	X					1	B-ST01	↓	2	407	408
	T1315-C	4/1/05 0955	W	X	X	X	X	X					X	X	X	X					1	B-ST01	↓	3	409	410
	Composite T1315								X	X	X	X					X	X	X			Hg 401	ORG 452			

Relinquished by: J. Lauchte 4/1/05 1500
Signature Date Time
J. Gamble TEC
Printed Name Company

Received by: 4.1.05 1500
Signature Date Time
C. Susick MSL
Printed Name Company

Relinquished by:
Signature Date Time
Printed Name Company

Received by:
Signature Date Time
Printed Name Company

Total # of Containers
Shipment Method:
Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

SAMPLE CHAIN OF CUSTODY FORM

Date: _____

Page: _____ of _____

COC Number: _____

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road, Sequim, WA 98382

Attention: Jill Brandenberger

Testing Parameters

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers
				X	X	X	X	X	X	X	X	X	X	X	X	X	X				
				X	X	X	X	X	X	X	X	X	X	X	X	X	X				
				X	X	X	X	X	X	X	X	X	X	X	X	X	X				
	61219-A	4/1/05 0730																			
	61219-B	4/1/05 1000																			
	~~61219-C~~																				
	Composite 61219			X	X	X	X	X	X	X	X	X	X	X	X	X	X				

Observations, Instructions

Cooler temp 2.0c

StationID	Storm#	Grab#	Estimated Flow (CFS)
KAR-WWTP	17-Jan-05		
KAR-WWTP	17-Jan-05		
KAR-WWTP	17-Jan-05		
KAR-WWTP	1-Apr-05	#1	3.95 C.F.S.
KAR-WWTP	1-Apr-05	#2	3.73 C.F.S
~~KAR-WWTP~~	1-Apr-05	#3	
TME 411	DME 412		

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

Relinquished by:	Signature	Date	Time	Printed Name	Company
	[signature]	4/1/05	1130	Bryan Gallagher	Kaichol Creek
~~Relinquished by:~~ Received by:	[signature]	4/1/05	1145	JD Estes	TEC

Received by:	Signature	Date	Time	Printed Name	Company
	[signature]				
Received by:	[signature]	4/1/05	1500	C. Suslick	MSL

Jan 17 05 12:28p Dr. R.K. Johnston 360-824-6279 p.1

SAMPLE CHAIN OF CUSTODY FORM

Date: 4/11/05

Page: 1 of 1

COC Number:

Battelle
Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Project No.: 43043

Project Name: TMDL in Sinclair & Dyes Inlets

Project Manager: Martin C. Miller

Phone: (360) 681-3668

Laboratory: Battelle MSL

Address: 1529 W. Sequim Bay Road
Sequim, WA 98382

Attention: Jill Brandenberger

Testing Parameters

Observations, Instructions

Lab. Use only: Lab ID	Sample ID	Collection Date/Time	Matrix	Alkalinity	Hardness	Total Solids	Total Suspended Solids	LISST	Nitrate+Nitrite	Total Phosphorus	TKN	Ammonia	TOC	DOC	Total Metals	Dissolved Metals	Total Mercury	Organics			No. of containers	StationID	Storm#	Bottle#	%Full
	T1300-A	4/10/05/2047	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				BI-SBC	2005 APR 103	1	100
	T1300-B	4/11/05/0247	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				BI-SBC	2005 APR 103	2	100
	~~T1300-C~~ Bwl 4/10/05	NA	W																			~~BI-SBC~~			
	~~T1300-D~~ Bwl 4/10/05	NA	W																			~~BI-SBC~~			

CF# 23198

ORG # 453
TOC # 454
DOC # 455

Relinquished by:

Brian Rupert — Signature — Date 4/11/05 — Time 1055

TEC — Printed Name — Company

Received by:

Signature — Date 4/11/05 — Time 1055

Jill Brandenberger — Printed Name — Battelle — Company

Total # of Containers

Shipment Method:

Special Requirements or Conditions:

Sample Disposition:

Relinquished by:

Signature — Date — Time

Printed Name — Company

Received by:

Signature — Date — Time

Printed Name — Company

Distribution:
1) 2 copies to the Laboratory
2) 1 copy to project manager
3) Return completed original to Battelle Marine Sciences Laboratory

FY05 SD Inlet Storms Equipment Blanks

LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: New 2318 Sample No(s): 1-and 3 Project Manager: JMB

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: water WP# F55746

Yes	No	
	✓	Navy-type Project (requires high-level sample tracking procedures)
✓		Filter Samples: Amount: Entire sample Half of sample
	✓	Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
✓		Special instructions: composite and aliquot for ORG/MET

Sample Preservation Instructions: MET = 0.2% HNO3

Date To Archive: _____ Date To Dispose: _____

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
		✓	Was a custody seal present?
		✓	Was the custody seal intact?
✓			Was cooler(s) temperature(s) within acceptable range of 4±2°C? 4.2 °C
			(if multiple coolers, note temp. of each) °C
		✓	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)?
			Comment/Remedy:
✓			Were all chain of custody forms signed and dated?
✓			Were samples filtered at MSL?

Sample condition(s): (Acceptable) Other (explain):

Container type: Teflon Poly (Glass) Spex Other:

Notes: _____

Completed By: JMBrand Date/Time: 12/3/04 1630

SAMPLE PRESERVATION

- ✓ Sample(s) were preserved at MSL
- ☐ Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
- ☐ Random pH checked for ~10% of samples (use dip paper) Sample IDs: _____
- ☐ Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type:			
	✓	0.2% HNO3	Notes: Lot# 1203030
	☐	0.5% HCl (Hg samples)	Notes:
	☐	Refrigerate/Freeze	Notes:
	☐	Other	Notes:

Completed By: JMBrand Date/Time: 12/3/04 1630

Revsed 031303

LOG-IN CHECKLIST Gorst FY05 storm 1 SOInlet

Reference SOP# MSL-A-001

Central File #: 2318 Sample No(s): 4 - 71 Project Manager: J. BRANDEN BERGER

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: Stormwater WP# F55746

Yes	No		
☐	☑		Navy-type Project (requires high-level sample tracking procedures)
☑	☐		Filter Samples: Amount: Entire sample / Half of sample
☐	☑		Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
☑	☐		Special instructions: Composite

Sample Preservation Instructions: 0.2% HNO3

Date To Archive: _____ Date To Dispose: _____

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
☐	☐	☑	Was a custody seal present?
☐	☐	☑	Was the custody seal intact?
☑	☐	☐	Was cooler(s) temperature(s) within acceptable range of 4±2°C? see back °C (if multiple coolers, note temp. of each) °C
☐	☐	☑	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:
☑	☐	☐	Were all chain of custody forms signed and dated?
☑	☐	☐	Were samples filtered at MSL?

Sample condition(s): (Acceptable) Other (explain):

Container type: (Teflon) (Poly) (Glass) Spex Other:

Notes: _____

Completed By: [signature] Date/Time: 1/18/05 1645

SAMPLE PRESERVATION

- ☒ Sample(s) were preserved at MSL
- ☐ Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
- ☐ Random pH checked for ~10% of samples (use dip paper) Sample IDs: _____
- ☐ Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type:		Notes:
☒	0.2% HNO3	LOT# 1203030 OPTIMA
☐	0.5% HCl (Hg samples)	
☐	Refrigerate/Freeze	
☐	Other	

Completed By: [signature] Date/Time: 1/18/05 23:00

storage K4A (14-19, 29-31, 42-47, 57-59)

L4C (5, 12, 20-22, 24, 26, 27-28, 33, 44-48-50, 52, 54-56, 64-68)

L4D (4, 6-10, 30, 34-38, 69-70)

Revsed 031303

Cooler #1	Temp °C	Jars
	1.4	
2	1.7	
3	1.3	
4	2.1	
5	1.5	
6	2.5	
7	3.4	
8	1.6	
9	2.3	
10	3.1	
11	1.5	
12	3.2	
13	2.1	
14	1.2	
15	2.2	
16	1.2	
17	1.2	
18	1.5	
19	1.3	
20	1.3	
21	1.4	
22	2.1	
~~23~~		
~~24~~		

SINCLAIR STORM

LOG-IN CHECKLIST Worst Event 2 131 Reference SOP# MSL-A-001

Central File #: 2318 Sample No(s): 72-127 Project Manager: J. BRANDENBERGER

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: Water WP#

Yes	No	
☐	☑	Navy-type Project (requires high-level sample tracking procedures)
☑	☐	Filter Samples: Amount: Entire sample Half of sample
☐	☑	Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
☑	☐	Special instructions: Composite

Sample Preservation Instructions: 0.2% HNO_3

Date To Archive: Date To Dispose:

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
☐	☐	☑	Was a custody seal present?
☐	☐	☑	Was the custody seal intact?
☑	☐	☐	Was cooler(s) temperature(s) within acceptable range of 4±2°C? see back of sheet °C (if multiple coolers, note temp. of each) °C
☐	☐	☑	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:
☑	☐	☐	Were all chain of custody forms signed and dated?
☑	☐	☐	Were samples filtered at MSL?

Sample condition(s): (Acceptable) Other (explain):

Container type: (Teflon) (Poly) (Glass) Spex Other:

Notes:

Completed By: JMBrandenberger for RW Date/Time: 1/30/05

SAMPLE PRESERVATION

☐ Sample(s) were preserved at MSL

☐ Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)

☐ Random pH checked for ~10% of samples (use dip paper) Sample IDs:

☐ Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type:		Notes:
☒	0.2% HNO3	OPTIMA LOT# 1203080
☐	0.5% HCl (Hg samples)	
☐	Refrigerate/Freeze	
☐	Other	

Completed By: M-Wood Date/Time: 1/23/05 16:00

Storage LSC (#72-78, 80-89, 93-96,)
LSD (#97-106, 108-117, 121-127)

COOLER #	TEMP °C
1	1.6
2	1.4
3	1.4
4	1.6
5	1.3
6	1.4
7	1.6
8	1.3
9	1.6
10	1.4
11	1.2

LOG-IN CHECKLIST ENVIEST Marine I ENV 120050I

Reference SOP# MSL-A-001

Central File #: 2318 Sample No(s): 132 - 159 Project Manager: MS

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: seawater WP#

Yes	No	
☐	☑	Navy-type Project (requires high-level sample tracking procedures)
☑	☐	Filter Samples: Amount: Entire sample Half of sample
☐	☑	Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
☑	☐	Special instructions: split for DOC/TOC

Sample Preservation Instructions: 0.2% HNO3

Date To Archive: Date To Dispose:

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
☐	☐	☑	Was a custody seal present?
☐	☐	☑	Was the custody seal intact?
☑	☐	☐	Was cooler(s) temperature(s) within acceptable range of 4±2°C? 5.0 and 4.5 °C (if multiple coolers, note temp. of each) °C
☐	☐	☑	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:
☑	☐	☐	Were all chain of custody forms signed and dated?
☑	☐	☐	Were samples filtered at MSL?

Sample condition(s): (Acceptable) Other (explain):

Container type: (Teflon) (Poly) Glass Spex Other:

Notes:

Completed By: JMBrun Date/Time: 2/9/05 1610

SAMPLE PRESERVATION

- ☑ Sample(s) were preserved at MSL
- ☐ Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
- ☐ Random pH checked for ~10% of samples (use dip paper) Sample IDs:
- ☐ Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type:		Notes:
☑	0.2% HNO3	Optima Lot # 1203080
☐	0.5% HCl (Hg samples)	
☐	Refrigerate/Freeze	
☐	Other	

Completed By: JMBrun for RWood Date/Time: ~~2/9/05~~ 1010 2/10/05

storage: 1302-152 K6C
153-159 J3D

LOG-IN CHECKLIST

SD/Inlet FY05 ~~Storm~~ 3 - Sinclair 1

Reference SOP# MSL-A-001

Central File #: 2318 Sample No(s): 160 - 238 Project Manager: JMB

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: water WP# F55746

Yes	No	
	✓	Navy-type Project (requires high-level sample tracking procedures)
✓		Filter Samples: Amount: Entire sample Half of sample
	✓	Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
✓		Special instructions: Composite

Sample Preservation Instructions:

Date To Archive: Date To Dispose:

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
		✓	Was a custody seal present?
		✓	Was the custody seal intact?
✓			Was cooler(s) temperature(s) within acceptable range of 4±2°C? °C
			(if multiple coolers, note temp. of each) °C
		✓	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)?
			Comment/Remedy:
✓			Were all chain of custody forms signed and dated?
✓			Were samples filtered at MSL?

Sample condition(s): (Acceptable) Other (explain):

Container type: (Teflon) (Poly) (Glass) Spex Other:

Notes:

Completed By: JMB Date/Time: 3/2/05 0930

SAMPLE PRESERVATION

- [x] Sample(s) were preserved at MSL
- [ ] Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
- [ ] Random pH checked for ~10% of samples (use dip paper) Sample IDs:
- [ ] Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type:			
	[x]	0.2% HNO3	Notes: OPTIMA LOT# 120-3080
	[ ]	0.5% HCl (Hg samples)	Notes:
	[ ]	Refrigerate/Freeze	Notes:
	[ ]	Other	Notes:

Completed By: Kwood Date/Time: 3/2/05 17:50

Storage

L Floor B # 184 → 203
L Floor B #160 → 183
L Floor C #222 → 231
L Floor D #208 → 227

Coolers for SD/Inlet FY05 Storm 3

temp	Cooler ID
4.9	KAR-WWTP- Grab 1-3
1.1	B-WWTP- Grabs Samples 1-3
1.7	B-st28 Jars 1-3
2.2	Grabs WS-DOT 1A 1-3
	2 1-3
	3 1-3
1.2	PSNS 015, JWB617/PSNS 124 Jars 1 & 2
1.7	PSNS 124 Jar 7 only/PSNS 126 Jars 1-3
1.3	303
1.3	PNS 124 Jars 3-6
1.8	PSNS Jar 3,4,5
1.6	B-st/CS016 Jars 6 & 7/PSNS 015 Jars 1 & 2
2.9	B-st 28 Jars 4,6,8 B-St/CS016 Jar 1
2.3	Cooler #58
2.0	BL Jar 4/OC Jars 1-3
1.4	B-st/CS016 Jars 2-5

FY05

sinclair storm 2

LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: 2318 Sample No(s): 267-320 Project Manager: JMB

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: water WP#

Yes	No	
	✓	Navy-type Project (requires high-level sample tracking procedures)
✓		Filter Samples: Amount: Entire sample Half of sample
	✓	Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
✓		Special instructions: composite, split

Sample Preservation Instructions: 0.2% HNO_3 for metals

Date To Archive: Date To Dispose:

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
		✓	Was a custody seal present?
		✓	Was the custody seal intact?
✓			Was cooler(s) temperature(s) within acceptable range of 4±2°C? °C
			(if multiple coolers, note temp. of each) °C
		✓	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)?
			Comment/Remedy:
✓			Were all chain of custody forms signed and dated?
✓			Were samples filtered at MSL?

Sample condition(s): (Acceptable) Other (explain):

Container type: (Teflon) (Poly) (Glass) Spex Other:

Notes:

Completed By: JM Brand Date/Time: 3/21/05 1911

SAMPLE PRESERVATION

- [ ] Sample(s) were preserved at MSL
- [ ] Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
- [ ] Random pH checked for ~10% of samples (use dip paper) Sample IDs:
- [ ] Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type:			
	[X]	0.2% HNO3	Notes: OPTIMA Nitric Lot# 120308O
	[ ]	0.5% HCl (Hg samples)	Notes:
	[ ]	Refrigerate/Freeze	Notes:
	[ ]	Other	Notes:

Completed By: R. Wood Date/Time: 3/21/05 17:00

3/22/05 09:30

Storage: 2318 (239-259) K2C
2318 (260-279) K1B
2318 (280-290) K1A
2318 (297-30.) K1A
2318 (316-320) F3C

LOG-IN CHECKLIST FY05 SD Inlet Dyes Storm 1

Reference SOP# MSL-A-001

Central File #: 2318 Sample No(s): 321-389, 342, 371-389 Project Manager: JMB

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: water WP#

Yes	No	
	✓	Navy-type Project (requires high-level sample tracking procedures)
✓		Filter Samples: Amount: Entire sample Half of sample
	✓	Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
✓		Special instructions: composite / split

Sample Preservation Instructions: Metals 0.2% HNO3

Date To Archive: Date To Dispose:

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
		✓	Was a custody seal present?
		✓	Was the custody seal intact?
✓			Was cooler(s) temperature(s) within acceptable range of 4±2°C? see COCs °C
			(if multiple coolers, note temp. of each) °C
		✓	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:
✓			Were all chain of custody forms signed and dated?
✓			Were samples filtered at MSL?

Sample condition(s): (Acceptable) Other (explain):

Container type: (Teflon) (Poly) (Glass) Spex Other:

Notes:

Completed By: JMB Date/Time: 3/27/05 1302

SAMPLE PRESERVATION

- [✓] Sample(s) were preserved at MSL
- [ ] Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
- [ ] Random pH checked for ~10% of samples (use dip paper) Sample IDs:
- [ ] Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type:			
[X]	0.2% HNO3	Notes:	OPTIMA LOT# 1203080
[ ]	0.5% HCl (Hg samples)	Notes:	
[ ]	Refrigerate/Freeze	Notes:	
[ ]	Other	Notes:	

Completed By: RWood Date/Time: 3/27/05 17:20

Storage: JIC (321-324, 327-334, 337-339)
JIB (340-342)

Marine 4 (Dyes 01 Storm)

LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: 2318 Sample No(s): 343-370 Project Manager: J. BRANDEN BERGER.

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: seawater WP# _____

Yes	No	
	✓	Navy type Project (requires high-level sample tracking procedures)
✓		Filter Samples: Amount: Entire sample Half of sample
	✓	Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
✓		Special instructions: split / filter / preserve

Sample Preservation Instructions: 0.2% HNO_3

Date To Archive: _____ Date To Dispose: _____

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
		✓	Was a custody seal present?
		✓	Was the custody seal intact?
✓			Was cooler(s) temperature(s) within acceptable range of 4±2°C? see COC °C
			(if multiple coolers, note temp. of each) °C
		✓	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)?
✓			Were all chain of custody forms signed and dated?
✓			Were samples filtered at MSL?

Comment/Remedy: _____

Sample condition(s): (Acceptable) Other (explain):

Container type: (Teflon) (Poly) Glass Spex Other: _____

Notes: _____

Completed By: JMBrew **Date/Time:** 3/28/05 1411

SAMPLE PRESERVATION

- ✓ Sample(s) were preserved at MSL
- ☐ Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
- ☐ Random pH checked for ~10% of samples (use dip paper) Sample IDs: _____
- ☐ Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type:		Notes:
✓	0.2% HNO3	OPTIMA Lot# 020308
☐	0.5% HCl (Hg samples)	
☐	Refrigerate/Freeze	
☐	Other	

Completed By: A. Leavell **Date/Time:** 3/28/05 17:20

Storage: J2B (335, 336, 343-354)
I4C (355-363)
I2C (364-370)

LOG-IN CHECKLIST SD Inlet Wet Season 2005 Reference SOP# MSL-A-001

Central File #: 2318 Sample No(s): select samples: 453-482, 504-511 Project Manager: JMB

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: water WP#

Yes	No	
	✓	Navy type Project (requires high-level sample tracking procedures)
✓		Filter Samples: Amount: Entire sample / Half of sample
	✓	Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
✓		Special instructions: split samples

Sample Preservation Instructions: metals: 0.2% HNO_3

Date To Archive: Date To Dispose:

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
		✓	Was a custody seal present?
		✓	Was the custody seal intact?
✓			Was cooler(s) temperature(s) within acceptable range of 4±2°C? 4.0, 4.8, 2.9 °C (if multiple coolers, note temp. of each) 4.1 °C
		✓	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:
✓			Were all chain of custody forms signed and dated?
✓			Were samples filtered at MSL?

Sample condition(s): (Acceptable) Other (explain):

Container type: (Teflon) Poly (Glass) Spex Other:

Notes: Hand delivered by TEC

Completed By: JMB Date/Time: 3/31/05 1930

SAMPLE PRESERVATION

- ✓ Sample(s) were preserved at MSL
- ☐ Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
- ☐ Random pH checked for ~10% of samples (use dip paper) Sample IDs:
- ☐ Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type:			
✓	0.2% HNO_3	Notes:	1203080
☐	0.5% HCl (Hg samples)	Notes:	
☐	Refrigerate/Freeze	Notes:	
☐	Other	Notes:	

Completed By: JMB Date/Time: 4/1/05

Dyes Storm 2

LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: 2318 Sample No(s): 391-412, 441 Project Manager: JMB

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: water WP#

Yes	No	
	✓	Navy-type Project (requires high-level sample tracking procedures)
✓		Filter Samples: Amount: Entire sample Half of sample
	✓	Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
✓		Special instructions: composite

Sample Preservation Instructions: SWLe Bottles 2-3-4-5 -1.1°C

Date To Archive: Date To Dispose: SWLe Bottles 1-2-3 -1.4

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

CC - Bottles 1-2-3 -2.0°

B-ST12 Bottles 4,5 -1.1

Ecology -2.0

CH Bottles 1-2-3 -1.1

#19 -2.0

B1-SBC Bottles 3,4 -1.5°

SC-Bottles 1,2,3 -1.1

BA Bottles 1-2-3 -2.4

BSTD1-GRAB 1,2 -3.2°C

Yes	No	N/A	Indicate in Appropriate Box
	✓		Was a custody seal present?
		✓	Was the custody seal intact?
✓			Was cooler(s) temperature(s) within acceptable range of 4±2°C? (If multiple coolers, note temp. of each) — °C
		✓	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:
✓			Were all chain of custody forms signed and dated?
			Were samples filtered at MSL?

Sample condition(s): Acceptable Other (explain):

Container type: Teflon Poly Glass Spex Other:

Notes: all coolers Well packed in ice - if temps low due to ice contact

Completed By: Date/Time: 4/1/05 1530

SAMPLE PRESERVATION

- [x] Sample(s) were preserved at MSL
- [ ] Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
- [ ] Random pH checked for ~10% of samples (use dip paper) Sample IDs:
- [ ] Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

- Type: [x] 0.2% HNO3 Notes: OPTIMA LOT # 1203080
- [ ] 0.5% HCl (Hg samples) Notes:
- [ ] Refrigerate/Freeze Notes:
- [ ] Other Notes:

Completed By: R. Wood Date/Time: 4/2/05 12:15

Storage L-1-C

LOG-IN CHECKLIST Sinclair Inlet make up Event due to duplicate codes 5-4/26/05

Reference SOP# MSL-A-001

Central File #: 2318 Sample No(s): 453 - 455B - Added Project Manager: JMB

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: Stormwater WP#

Yes	No	
☐	☑	Navy-type Project (requires high-level sample tracking procedures)
☑	☐	Filter Samples: Amount: Entire sample Half of sample
☐	☑	Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
☑	☐	Special instructions: composite / split / preserve

Sample Preservation Instructions: see SAP

Date To Archive: Date To Dispose:

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
☐	☐	☑	Was a custody seal present?
☐	☐	☑	Was the custody seal intact?
☑	☐	☐	Was cooler(s) temperature(s) within acceptable range of 4±2°C? 4.0 °C (if multiple coolers, note temp. of each) °C
☐	☐	☑	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:
☑	☐	☐	Were all chain of custody forms signed and dated?
☑	☐	☐	Were samples filtered at MSL?

Sample condition(s): (Acceptable) Other (explain):

Container type: Teflon Poly (Glass) Spex Other:

Notes:

Completed By: JMBrown Date/Time: 4/11/05 1055

SAMPLE PRESERVATION

☒ Sample(s) were preserved at MSL

☐ Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)

☐ Random pH checked for ~10% of samples (use dip paper) Sample IDs:

☐ Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type: ☒ 0.2% HNO3 Notes: OPTIMA NITRIC LOT# 120308O

☐ 0.5% HCl (Hg samples) Notes:

☐ Refrigerate/Freeze Notes:

☐ Other Notes:

Completed By: Lwood Date/Time: 4/11/05 16500

storage: I-1-B metals 454B + 455B Org 453

Legend - FY05 Sinclair (CF# 2318) Login

TYPE CODE:

FC	flow composite from ISSCO Samples
EC-I	equal ratios composite of time composited ISSCO Samples
EC-G	equal ratios composite of grab samples
G	Grab sample
D	Discrete sample collected from one jar of the time compositing ISSCO sampler
EM	Event Mean

MATRIX CODE:

STW	Stream Water
MW	Marine Water
SW	Stormwater Outfall
SED	Sediment
TISS	Tissue
EB	Equipment Blank Water

cc: Project Manager/Central File
Login File 2318

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 12/03/04
Batch: 1

PROJECT: TMDL in Sinclair & Dyes Inlets

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	COLLECTION DATE	INITIALS	Type
BST12-RB*	BST12-RB	2318-1	EB	raw water	Prep Lab L-3-B	Total Metals, Hg	12/03/04	MLFM	EC-I
BST12-RB*	BST12-RB	2318-2	EB	filt. water	Prep Lab L-3-B	Dissolved Metals	12/03/04	MLFM	EC-I
BST12-RB*	BST12-RB	2318-3	EB	raw water	Outside Refrigerator	Organics	12/03/04	MLFM	EC-I

*Composit of Samples BST12-RB-1,2,3 & 4. Made into one sample and divided into 3 samples (sample 2 being filtered), for the various analysis.

cc: Project Manager/Central File
Login File 2318

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 01/19/05
Batch: 2

PROJECT: FY05 Gorst Storm 1

SPONSOR CODE	Station ID	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	COLLECTION DATE	INITIALS	Type
T1100	LMK136	2318-4	SW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	FC
T1101	GC	2318-5	STW	raw water	Prep Lab L-4-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	EC-I
T1102	GC-SAN	2318-6	STW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	EC-I
T1103	AC	2318-7	STW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	EC-I
T1104	LMK122	2318-8	SW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	FC
T1105	LMK038	2318-9	SW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	FC
T1106	PO-POBLVD	2318-10	SW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	FC
G1101	KAR-WWTP	2318-12	WWTP	raw water	Prep Lab L-4-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	EC-G
G1103-A	AC-LOW	2318-14	STW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1103-B	AC-LOW	2318-15	STW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1103-C	AC-LOW	2318-16	STW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1104-A	GC-M	2318-17	STW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1104-B	GC-M	2318-18	STW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1104-C	GC-M	2318-19	STW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1105-A	WADOT-01A	2318-20	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1105-B	WADOT-01A	2318-21	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1105-C	WADOT-01A	2318-22	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1106-B	WADOT-01B	2318-24	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1107-A	WADOT-02	2318-26	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1107-B	WADOT-02	2318-27	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1107-C	WADOT-02	2318-28	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1108-A	WADOT-03	2318-29	SW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1108-B	WADOT-03	2318-30	SW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1108-C	WADOT-03	2318-31	SW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
T1100	LMK136	2318-32	SW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	FC
T1101	GC	2318-33	STW	filt. water	Prep Lab L-4-C	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	EC-I
T1102	GC-SAN	2318-34	STW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	EC-I
T1103	AC	2318-35	STW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	EC-I
T1104	LMK122	2318-36	SW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	FC
T1105	LMK038	2318-37	SW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	FC
T1106	PO-POBLVD	2318-38	SW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	FC
G1101	KAR-WWTP	2318-40	WWTP	filt. water	Prep Lab L-4-C	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	EC-G
G1103-A	AC-LOW	2318-42	STW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1103-B	AC-LOW	2318-43	STW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1103-C	AC-LOW	2318-44	STW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G

cc: Project Manager/Central File
Login File 2318

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 01/19/05
Batch: 2

PROJECT: FY05 Gorst Storm 1

SPONSOR CODE	Station ID	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	COLLECTION DATE	INITIALS	Type
G1104-A	GC-M	2318-45	STW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1104-B	GC-M	2318-46	STW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1104-C	GC-M	2318-47	STW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1105-A	WADOT-01A	2318-48	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1105-B	WADOT-01A	2318-49	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1105-C	WADOT-01A	2318-50	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1106-B	WADOT-01B	2318-52	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1107-A	WADOT-02	2318-54	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1107-B	WADOT-02	2318-55	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1107-C	WADOT-02	2318-56	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1108-A	WADOT-03	2318-57	SW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1108-B	WADOT-03	2318-58	SW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1108-C	WADOT-03	2318-59	SW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
T1100	LMK136	2318-60	SW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	FC
T1102	GC-SAN	2318-62	STW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	EC-I
T1103	AC	2318-63	STW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	EC-I
T1104	LMK122	2318-64	SW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	FC
T1105	LMK038	2318-65	SW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	FC
T1106	PO-POBLVD	2318-66	SW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	FC
G1105-B-Dup	WA-DOT-01A	2318-67	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1105-B-Dup	WA-DOT-01A	2318-68	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
T1114	AC-DUP	2318-69	STW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	EC-I
T1114	AC-DUP	2318-70	STW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	EC-I
T1114	AC-DUP	2318-71	STW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	EC-I

cc: Project Manager/Central File
Login File 2318

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 01/24/05
Batch: 3

PROJECT: FY05 Gorst Storm 2

SPONSOR CODE	Station ID	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	COLLECTION DATE	INITIALS	TYPE
T1107	LMK 136	2318-72	SW	raw water	Prep Lab l-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	FC
T1108	GC	2318-73	STW	raw water	Prep Lab l-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	EC-I
T1109	GC-SAN	2318-74	STW	raw water	Prep Lab l-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	EC-I
T1111	LMK 122	2318-75	SW	raw water	Prep Lab l-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	FC
T1112	LMK 038	2318-76	SW	raw water	Prep Lab l-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	FC
T1113	PO-POBLVD	2318-77	SW	raw water	Prep Lab l-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	FC
T1115	AC-DUP	2318-78	STW	raw water	Prep Lab l-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	EC-I
T1110	KAR-WWTP	2318-80	WWTP	raw water	Prep Lab l-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	EC-G
G1112-A	AC-LOW	2318-81	STW	raw water	Prep Lab l-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1112-B	AC-LOW	2318-82	STW	raw water	Prep Lab l-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1112-C	AC-LOW	2318-83	STW	raw water	Prep Lab l-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1113-A	GC-M	2318-84	STW	raw water	Prep Lab l-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1113-B	GC-M	2318-85	STW	raw water	Prep Lab l-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1113-C	GC-M	2318-86	STW	raw water	Prep Lab l-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1114-A	WADOT-01A	2318-87	SW	raw water	Prep Lab l-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1114-B	WADOT-01A	2318-88	SW	raw water	Prep Lab l-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1114-C	WADOT-01A	2318-89	SW	raw water	Prep Lab l-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1116-A	WADOT-02	2318-93	SW	raw water	Prep Lab l-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1116-B	WADOT-02	2318-94	SW	raw water	Prep Lab l-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1116-C	WADOT-02	2318-95	SW	raw water	Prep Lab l-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1117-A	WADOT-03	2318-96	SW	raw water	Prep Lab l-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1117-B	WADOT-03	2318-97	SW	raw water	Prep Lab l-5-D	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1117-C	WADOT-03	2318-98	SW	raw water	Prep Lab l-5-D	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1112-A DUP	AC-LOW	2318-99	STW	raw water	Prep Lab l-5-D	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
T1107	LMK 136	2318-100	SW	filt.water	Prep Lab l-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	FC
T1108	GC	2318-101	STW	filt.water	Prep Lab l-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	EC-I
T1109	GC-SAN	2318-102	STW	filt.water	Prep Lab l-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	EC-I
T1111	LMK 122	2318-103	SW	filt.water	Prep Lab l-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	FC
T1112	LMK 038	2318-104	SW	filt.water	Prep Lab l-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	FC
T1113	PO-POBLVD	2318-105	SW	filt.water	Prep Lab l-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	FC
T1115	AC-DUP	2318-106	STW	filt.water	Prep Lab l-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	EC-I
T1110	KAR-WWTP	2318-108	WWTP	filt.water	Prep Lab l-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	EC-G

cc: Project Manager/Central File
Login File 2318

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 01/24/05
Batch: 3

PROJECT: FY05 Gorst Storm 2

SPONSOR CODE	Station ID	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	COLLECTION DATE	INITIALS	TYPE
G1112-A	AC-LOW	2318-109	STW	filt.water	Prep Lab l-5-C	Cu, Zn	01/22/05	MLFM	G
G1112-B	AC-LOW	2318-110	STW	filt.water	Prep Lab l-5-C	Cu, Zn	01/22/05	MLFM	G
G1112-C	AC-LOW	2318-111	STW	filt.water	Prep Lab l-5-C	Cu, Zn	01/22/05	MLFM	G
G1113-A	GC-M	2318-112	STW	filt.water	Prep Lab l-5-C	Cu, Zn	01/22/05	MLFM	G
G1113-B	GC-M	2318-113	STW	filt.water	Prep Lab l-5-C	Cu, Zn	01/22/05	MLFM	G
G1113-C	GC-M	2318-114	STW	filt.water	Prep Lab l-5-C	Cu, Zn	01/22/05	MLFM	G
G1114-A	WADOT-01A	2318-115	SW	filt.water	Prep Lab l-5-C	Cu, Zn	01/22/05	MLFM	G
G1114-B	WADOT-01A	2318-116	SW	filt.water	Prep Lab l-5-C	Cu, Zn	01/22/05	MLFM	G
G1114-C	WADOT-01A	2318-117	SW	filt.water	Prep Lab l-5-C	Cu, Zn	01/22/05	MLFM	G
G1116-A	WADOT-02	2318-121	SW	filt.water	Prep Lab l-5-D	Cu, Zn	01/22/05	MLFM	G
G1116-B	WADOT-02	2318-122	SW	filt.water	Prep Lab l-5-D	Cu, Zn	01/22/05	MLFM	G
G1116-C	WADOT-02	2318-123	SW	filt.water	Prep Lab l-5-D	Cu, Zn	01/22/05	MLFM	G
G1117-A	WADOT-03	2318-124	SW	filt.water	Prep Lab l-5-D	Cu, Zn	01/22/05	MLFM	G
G1117-B	WADOT-03	2318-125	SW	filt.water	Prep Lab l-5-D	Cu, Zn	01/22/05	MLFM	G
G1117-C	WADOT-03	2318-126	SW	filt.water	Prep Lab l-5-D	Cu, Zn	01/22/05	MLFM	G
G1112-A DUP	AC-LOW	2318-127	STW	filt.water	Prep Lab l-5-D	Cu, Zn	01/22/05	MLFM	G
T1107	LMK 136	2318-128	SW	raw water	Outside Refrigerator	Organics	01/22/05	MLFM	FC
T1111	LMK 122	2318-129	SW	raw water	Outside Refrigerator	Organics	01/22/05	MLFM	FC
T1112	LMK 038	2318-130	SW	raw water	Outside Refrigerator	Organics	01/22/05	MLFM	FC
T1113	PO-POBLVD	2318-131	SW	raw water	Outside Refrigerator	Organics	01/22/05	MLFM	FC

cc: Project Manager/Central File
Login File 2318

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 02/09/05
Batch: 4

PROJECT: FY05 Sinclair/Dyes Inlet Marine 1 - ENV200501

SPONSOR CODE	Station ID	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	COLLECTION DATE	INITIALS	TYPE
M4100	P3	2318-132	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4100	P3	2318-133	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4101	P2	2318-134	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4101	P2	2318-135	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4102	P2-dup	2318-136	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4102	P2-dup	2318-137	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4103	P1	2318-138	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4103	P1	2318-139	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4104	M4	2318-140	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn, and Hg	02/09/05	MLFM	G
M4104	M4	2318-141	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4105	M3.3	2318-142	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4105	M3.3	2318-143	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4106	SN12	2318-144	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4106	SN12	2318-145	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4107	BJ-EST	2318-146	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4107	BJ-EST	2318-147	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4108	M3.1	2318-148	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn, and Hg	02/09/05	MLFM	G
M4108	M3.1	2318-149	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4109	M6	2318-150	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn, and Hg	02/09/05	MLFM	G
M4109	M6	2318-151	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4110	DY01	2318-152	MW	raw water	Prep Lab J-3-D	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4110	DY01	2318-153	MW	filt. water	Prep Lab J-3-D	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4112	PLO1	2318-154	MW	raw water	Prep Lab J-3-D	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4112	PLO1	2318-155	MW	filt. water	Prep Lab J-3-D	Cd, Cu, Pb, Zn	02/09/05	MLFM	G

cc: Project Manager/Central File
Login File 2318

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 02/09/05
Batch: 4

PROJECT: FY05 Sinclair/Dyes Inlet Marine 1 - ENV200501

SPONSOR CODE	Station ID	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	COLLECTION DATE	INITIALS	TYPE
M4113	PLO2	2318-156	MW	raw water	Prep Lab J-3-D	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4113	PLO2	2318-157	MW	filt. water	Prep Lab J-3-D	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4114	PLO3	2318-158	MW	raw water	Prep Lab J-3-D	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4114	PLO3	2318-159	MW	filt. water	Prep Lab J-3-D	Cd, Cu, Pb, Zn	02/09/05	MLFM	G

cc: Project Manager/Central File
Login File 2318

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 3/2/05
Batch: 5

PROJECT FY05 Sinclair Storm 1

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	Start Date	Start Time	INITIALS	TYPE
T1200	BL	2318*160	STW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1538	CS	EC-I
T1200	BL	2318*161	STW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1538	CS	EC-I
T1201	OC	2318*162	STW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1558	CS	EC-I
T1201	OC	2318*163	STW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1558	CS	EC-I
T1202	B-ST28	2318*164	SW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1521	CS	FC
T1202	B-ST28	2318*165	SW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1521	CS	FC
T1203	B-ST/CSO16	2318*166	SW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1452	CS	FC
T1203	B-ST/CSO16	2318*167	SW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1452	CS	FC
T1204	PSNS015	2318*168	SW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1741	CS	FC
T1204	PSNS015	2318*169	SW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1741	CS	FC
T1205	PSNS124	2318*170	SW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1726	CS	FC
T1205	PSNS124	2318*171	SW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1726	CS	FC
T1206	PSNS126	2318*172	SW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1732	CS	FC
T1206	PSNS126	2318*173	SW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1732	CS	FC
G1200	B-WWTP	2318*174	WWTP	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	03/01/05	725	CS	EC-G
G1200	B-WWTP	2318*175	WWTP	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	03/01/05	725	CS	EC-G
G1201	KAR-WWTP	2318*176	WWTP	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	03/01/05	800	CS	EC-G
G1201	KAR-WWTP	2318*177	WWTP	DME		Cd, Cu, Pb, Ag and Zn	03/01/05	800	CS	EC-G
G1202	B-ETF	2318*178	NOT COLLECTED							
G1202	B-ETF	2318*179	NOT COLLECTED							
G1205-A	WADOT-01A	2318*180	SW	TME	L Floor B	Al, Cu, Zn, Cd, Pb	02/28/05	1705	CS	G
G1205-A	WADOT-01A	2318*181	SW	DME	L Floor B	Cu, Zn	02/28/05	1705	CS	G
G1205-B	WADOT-01A	2318*182	SW	TME	L Floor B	Al, Cu, Zn, Cd, Pb	02/28/05	2238	CS	G
G1205-B	WADOT-01A	2318*183	SW	DME	L Floor B	Cu, Zn	02/28/05	2238	CS	G
G1205-C	WADOT-01A	2318*184	SW	TME	K Floor B	Al, Cu, Zn, Cd, Pb	03/01/05	1021	CS	G
G1205-C	WADOT-01A	2318*185	SW	DME	K Floor B	Cu, Zn	03/01/05	1021	CS	G
G1206-A	WADOT-01B	2318*186	NOT COLLECTED							
G1206-A	WADOT-01B	2318*187	NOT COLLECTED							
G1206-B	WADOT-01B	2318*188	NOT COLLECTED							

cc: Project Manager/Central File
Login File 2318

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 3/2/05
Batch: 5

PROJECT FY05 Sinclair Storm 1

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	Start Date	Start Time	INITIALS	TYPE
G1206-B	WADOT-01B	2318*189	NOT COLLECTED							
G1206-C	WADOT-01B	2318*190	NOT COLLECTED							
G1206-C	WADOT-01B	2318*191	NOT COLLECTED							
G1207-A	WADOT-02	2318*192	SW	TME	K Floor B	Al, Cu, Zn, Cd, Pb	02/28/05	1645	CS	G
G1207-A	WADOT-02	2318*193	SW	DME	K Floor B	Cu, Zn	02/28/05	1645	CS	G
G1207-B	WADOT-02	2318*194	SW	TME	K Floor B	Al, Cu, Zn, Cd, Pb	02/28/05	2206	CS	G
G1207-B	WADOT-02	2318*195	SW	DME	K Floor B	Cu, Zn	02/28/05	2206	CS	G
G1207-C	WADOT-02	2318*196	SW	TME	K Floor B	Al, Cu, Zn, Cd, Pb	03/01/05	1010	CS	G
G1207-C	WADOT-02	2318*197	SW	DME	K Floor B	Cu, Zn	03/01/05	1010	CS	G
G1208-A	WADOT-03	2318*198	SW	TME	K Floor B	Al, Cu, Zn, Cd, Pb	02/28/05	1655	CS	G
G1208-A	WADOT-03	2318*199	SW	DME	K Floor B	Cu, Zn	02/28/05	1655	CS	G
G1208-B	WADOT-03	2318*200	SW	TME	K Floor B	Al, Cu, Zn, Cd, Pb	02/28/05	2216	CS	G
G1208-B	WADOT-03	2318*201	SW	DME	K Floor B	Cu, Zn	02/28/05	2216	CS	G
G1208-C	WADOT-03	2318*202	SW	TME	K Floor B	Al, Cu, Zn, Cd, Pb	03/01/05	1015	CS	G
G1208-C	WADOT-03	2318*203	SW	DME	K Floor B	Cu, Zn	03/01/05	1015	CS	G
SEAWATER:										
M4150	P3	2318*204	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	653	CS	G
M4150	P3	2318*205	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	653	CS	G
M4151	P2	2318*206	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	710	CS	G
M4151	P2	2318*207	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	710	CS	G
M4154	M4 DUP	2318*208	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn, and Hg	03/02/05	823	CS	G
M4154	M4 DUP	2318*209	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	823	CS	G
M4152	P1	2318*210	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	752	CS	G
M4152	P1	2318*211	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	752	CS	G
M4153	M4	2318*212	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	823	CS	G
M4153	M4	2318*213	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	823	CS	G
M4155	M3.3	2318*214	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	846	CS	G
M4155	M3.3	2318*215	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	846	CS	G
M4156	SN12	2318*216	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	900	CS	G
M4156	SN12	2318*217	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	900	CS	G
M4157	BJ-EST	2318*218	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	914	CS	G
M4157	BJ-EST	2318*219	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	914	CS	G

cc: Project Manager/Central File
Login File 2318

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 3/2/05
Batch: 5

PROJECT FY05 Sinclair Storm 1

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	Start Date	Start Time	INITIALS	TYPE
M4158	M3.1	2318*220	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn, and Hg	03/02/05	947	CS	G
M4158	M3.1	2318*221	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	947	CS	G
M4159	M6	2318*222	MW	TME	L Floor C	Al, Cd, Cu, Pb, Zn, and Hg	03/02/05	1117	CS	G
M4159	M6	2318*223	MW	DME	L Floor C	Cd, Cu, Pb, Zn	03/02/05	1117	CS	G
M4160	DY01	2318*224	MW	TME	L Floor C	Al, Cd, Cu, Pb, Zn	03/02/05	958	CS	G
M4160	DY01	2318*225	MW	DME	L Floor C	Cd, Cu, Pb, Zn	03/02/05	958	CS	G
M4163	PL05	2318*226	MW	TME	L Floor C	Al, Cd, Cu, Pb, Zn	03/02/05	931	CS	G
M4163	PL05	2318*227	MW	DME	L Floor C	Cd, Cu, Pb, Zn	03/02/05	931	CS	G
M4164	PL06	2318*228	MW	TME	L Floor C	Al, Cd, Cu, Pb, Zn	03/02/05	1051	CS	G
M4164	PL06	2318*229	MW	DME	L Floor C	Cd, Cu, Pb, Zn	03/02/05	1051	CS	G
M4162	PL04	2318*230	MW	TME	L Floor C	Al, Cd, Cu, Pb, Zn	03/02/05	840	CS	G
M4162	PL04	2318*231	MW	DME	L Floor C	Cd, Cu, Pb, Zn	03/02/05	840	CS	G
ORGANICS:										
T1200	BL	2318*232	STW	NA	Outside Ref	Organics	02/28/05	1538	CS	EC-I
T1201	OC	2318*233	STW	NA	Outside Ref	Organics	02/28/05	1558	CS	EC-I
T1202	B-ST28	2318*234	SW	NA	Outside Ref	Organics	02/28/05	1521	CS	FC
T1203	B-ST/CSO16	2318*235	SW	NA	Outside Ref	Organics	02/28/05	1452	CS	FC
T1204	PSNS015	2318*236	SW	NA	Outside Ref	Organics	02/28/05	1741	CS	FC
T1205	PSNS124	2318*237	SW	NA	Outside Ref	Organics	02/28/05	1726	CS	FC
T1206	PSNS126	2318*238	SW	NA	Outside Ref	Organics	02/28/05	1732	CS	FC

cc: Project Manager/Central File
Login File

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 03/21/05
Batch:

PROJECT: Sinclair Marine 3 FY05

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	STORAGE LOCATION	PARAMETERS REQUESTED	COLLECTION DATE	COLLECTION Time	INITIALS
M4200	P3	2318*239	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	646	CS
M4200	P3	2318*240	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	646	CS
M4201	P2	2318*241	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	710	CS
M4201	P2	2318*242	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	710	CS
M4202	P1	2318*243	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	747	CS
M4202	P1	2318*244	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	747	CS
M4203	M4	2318*245	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn, and Hg	03/19/05	829	CS
M4203	M4	2318*246	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	829	CS
M4204	M3.3	2318*247	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	844	CS
M4204	M3.3	2318*248	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	844	CS
M4205	SN12	2318*249	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	859	CS
M4205	SN12	2318*250	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	859	CS
M4206	SN12DUP	2318*251	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	859	CS
M4206	SN12DUP	2318*252	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	859	CS
M4207	BJ-EST	2318*253	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	913	CS
M4207	BJ-EST	2318*254	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	913	CS
M4208	M3.1	2318*255	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn, and Hg	03/19/05	940	CS
M4208	M3.1	2318*256	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	940	CS
M4209	M6	2318*257	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn, and Hg	03/19/05	1051	CS
M4209	M6	2318*258	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	1051	CS
M4210	DY01	2318*259	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	952	CS
M4210	DY01	2318*260	Dissolved	Prep Lab K-1-B	Cd, Cu, Pb, Zn	03/19/05	952	CS
M4212	PL07	2318*261	Total	Prep Lab K-1-B	Al, Cd, Cu, Pb, Zn	03/19/05	925	CS
M4212	PL07	2318*262	Dissolved	Prep Lab K-1-B	Cd, Cu, Pb, Zn	03/19/05	925	CS
M4213	PL08	2318*263	Total	Prep Lab K-1-B	Al, Cd, Cu, Pb, Zn	03/19/05	1030	CS
M4213	PL08	2318*264	Dissolved	Prep Lab K-1-B	Cd, Cu, Pb, Zn	03/19/05	1030	CS
M4214	PL09	2318*265	Total	Prep Lab K-1-B	Al, Cd, Cu, Pb, Zn	03/19/05	1030	CS
M4214	PL09	2318*266	Dissolved	Prep Lab K-1-B	Cd, Cu, Pb, Zn	03/19/05	1030	CS

cc: Project Manager/Central File
Login File

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 03/21/05
Batch: 6

PROJECT: Sinclair Storm 2 FY05

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Start Time	TYPE
T1209	B-ST28	2318*267	SW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1254	FC
T1209	B-ST28	2318*268	SW	DME	Prep Lab K-1-B	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1254	FC
T1210	B-ST/CSO16	2318*269	SW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1308	FC
T1210	B-ST/CSO16	2318*270	SW	DME	Prep Lab K-1-B	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1308	FC
T1211	PSNS015	2318*271	SW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1238	FC
T1211	PSNS015	2318*272	SW	DME	Prep Lab K-1-B	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1238	FC
T1212	PSNS124	2318*273	SW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1230	FC
T1212	PSNS124	2318*274	SW	DME	Prep Lab K-1-B	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1230	FC
T1213	PSNS126	2318*275	SW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1227	FC
T1213	PSNS126	2318*276	SW	DME	Prep Lab K-1-B	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1227	FC
T1207	BL	2318*277	STW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1240	EC-I
T1207	BL	2318*278	STW	DME	Prep Lab K-1-B	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1240	EC-I
T1208	OC	2318*279	STW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1236	EC-I
T1208	OC	2318*280	STW	DME	Prep Lab K-1-A	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1236	EC-I
T1221	B-ST12	2318*281	SW	TME	Prep Lab K-1-A	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1318	FC
T1221	B-ST12	2318*282	SW	DME	Prep Lab K-1-A	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1318	FC
G1210	KAR-WWTP	2318*283	WWTP	TME	Prep Lab K-1-A	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1300	EC-G
G1210	KAR-WWTP	2318*284	WWTP	DME	Prep Lab K-1-A	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1300	EC-G
G1214A	WADOT-01A	2318*285	SW	TME	Prep Lab K-1-A	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1428	G
G1214A	WADOT-01A	2318*286	SW	DME	Prep Lab K-1-A	Cu, Zn	CS,MLFM	03/19/05	1428	G
G1214B	WADOT-01A	2318*287	SW	TME	Prep Lab K-1-A	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1815	G
G1214B	WADOT-01A	2318*288	SW	DME	Prep Lab K-1-A	Cu, Zn	CS,MLFM	03/19/05	1815	G
G1214C	WADOT-01A	2318*289	SW	TME	Prep Lab K-1-A	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/20/05	1050	G
G1214C	WADOT-01A	2318*290	SW	DME	Prep Lab K-1-A	Cu, Zn	CS,MLFM	03/20/05	1050	G
G1216A	WADOT-02	2318*297	SW	TME	Prep Lab K-1-A	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1420	G
G1216A	WADOT-02	2318*298	SW	DME	Prep Lab K-1-A	Cu, Zn	CS,MLFM	03/19/05	1420	G
G1216B	WADOT-02	2318*299	SW	TME	Prep Lab K-1-A	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1800	G
G1216B	WADOT-02	2318*300	SW	DME	Prep Lab K-1-A	Cu, Zn	CS,MLFM	03/19/05	1800	G
G1216C	WADOT-02	2318*301	SW	TME	Prep Lab K-1-A	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/20/05	1035	G
G1216C	WADOT-02	2318*302	SW	DME	Prep Lab I-3-C	Cu, Zn	CS,MLFM	03/20/05	1035	G
G1217A	WADOT-03	2318*303	SW	TME	Prep Lab I-3-C	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1412	G

cc: Project Manager/Central File
Login File

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 03/21/05
Batch: 6

PROJECT: Sinclair Storm 2 FY05

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Start Time	TYPE
G1217A	WADOT-03	2318*304	SW	DME	Prep Lab I-3-C	Cu, Zn	CS,MLFM	03/19/05	1412	G
G1217B	WADOT-03	2318*305	SW	TME	Prep Lab I-3-C	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1805	G
G1217B	WADOT-03	2318*306	SW	DME	Prep Lab I-3-C	Cu, Zn	CS,MLFM	03/19/05	1805	G
G1217C	WADOT-03	2318*307	SW	TME	Prep Lab I-3-C	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/20/05	1040	G
G1217C	WADOT-03	2318*308	SW	DME	Prep Lab I-3-C	Cu, Zn	CS,MLFM	03/20/05	1040	G
G1214B DUP	WADOT-01A	2318*316	SW	DME	Prep Lab I-3-C	Cu, Zn	CS,MLFM	03/19/05	1815	G
G1214B DUP	WADOT-01A	2318*317	SW	TME	Prep Lab I-3-C	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1815	G
G1214C DUP	WADOT-01A	2318*318	SW	DME	Prep Lab I-3-C	Cu, Zn	CS,MLFM	03/20/05	1052	G
G1214C DUP	WADOT-01A	2318*319	SW	TME	Prep Lab I-3-C	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/20/05	1052	G
ORGANICS										
T1209	B-ST28	2318*309	SW	Freshwater	Refigerator	ORGANICS	CS,MLFM	03/19/05	1254	FC
T1210	B-ST/CSO16	2318*310	SW	Freshwater	Refigerator	ORGANICS	CS,MLFM	03/19/05	1308	FC
T1211	PSNS015	2318*311	SW	Freshwater	Refigerator	ORGANICS	CS,MLFM	03/19/05	1238	FC
T1212	PSNS124	2318*312	SW	Freshwater	Refigerator	ORGANICS	CS,MLFM	03/19/05	1230	FC
T1213	PSNS126	2318*313	SW	Freshwater	Refigerator	ORGANICS	CS,MLFM	03/19/05	1227	FC
T1207	BL	2318*314	STW	Freshwater	Refigerator	No not Analyze	CS,MLFM	03/19/05	1240	EC-I
T1208	OC	2318*315	STW	Freshwater	Refigerator	No not Analyze	CS,MLFM	03/19/05	1236	EC-I
T1221	B-ST12	2318*320	SW	Freshwater	Refigerator	ORGANICS	CS,MLFM	03/19/05	1318	FC

cc: Project Manager/Central File
Login File

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 03/27/05
Batch:

FW = Freshwater

PROJECT: FY 05 Dyes Storm 1

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Start Time	Sample Type
T1305	SW6	2318*321	SW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	140	FC
T1305	SW6	2318*322	SW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	140	FC
T1306	B-ST12	2318*323	SW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	136	FC
T1306	B-ST12	2318*324	SW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	136	FC
T1301	BA	2318*327	STW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	142	EC-I
T1301	BA	2318*328	STW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	142	EC-I
T1302	CC	2318*329	STW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	133	EC-I
T1302	CC	2318*330	STW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	133	EC-I
T1303	SC	2318*331	STW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	834	EC-I
T1303	SC	2318*332	STW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	834	EC-I
T1304	CH	2318*333	STW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	56	EC-I
T1304	CH	2318*334	STW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	56	EC-I
G1210	KAR-WWTP	2318*335	WWTP	Total - FW	Prep Lab J-2-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	800	EC-G
G1210	KAR-WWTP	2318*336	WWTP	Diss - FW	Prep Lab J-2-B	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	800	EC-G
T1307-A	B-ST01	2318*337	SW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn	JB	03/26/05	115	G
T1307-A	B-ST01	2318*338	SW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	115	G
T1307-B	B-ST01	2318*339	SW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn	JB	03/26/05	945	G
T1307-B	B-ST01	2318*340	SW	Diss - FW	Prep Lab I-1-B	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	945	G
T1307-C	B-ST01	2318*341	SW	Total - FW	Prep Lab I-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn	JB	03/26/05	1845	G
T1307-C	B-ST01	2318*342	SW	Diss - FW	Prep Lab I-1-B	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	1845	G
T1307	B-ST01	2318*371	SW	Total - FW	Prep Lab I-1-B	Hg	JB	03/26/05	115	EC-G
ORGANICS										
T1305	SW6	2318*374	SW	Total - FW	Outside Fridge	ORGANICS	JB	03/26/05	140	FC
T1306	B-ST12	2318*376	SW	Total - FW	Outside Fridge	ORGANICS	JB	03/26/05	136	FC
T1301	BA	2318*380	STW	Total - FW	Outside Fridge	ORGANICS	JB	03/26/05	142	EC-I
T1302	CC	2318*382	STW	Total - FW	Outside Fridge	ORGANICS	JB	03/26/05	133	EC-I
T1304	CH	2318*386	STW	Total - FW	Outside Fridge	ORGANICS	JB	03/26/05	56	EC-I
T1307	B-ST01	2318*389	SW	Total - FW	Outside Fridge	ORGANICS	JB	03/26/05	115	EC-G

cc: Project Manager/Central File
Login File

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 03/28/05
Batch: 8

MW = Seawater

PROJECT: Sinclair Marine 4 FY05

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	STORAGE LOCATION	PARAMETERS REQUESTED	COLLECTION DATE	COLLECTION TIME	INITIALS
M4250	P3	2318*343	Total - MW	Prep Lab J-2-B	Al, Cd, Cu, Pb, Zn	03/28/05	653	JB
M4250	P3	2318*344	Diss - MW	Prep Lab J-2-B	Cd, Cu, Pb, Zn	03/28/05	653	JB
M4251	P2	2318*345	Total - MW	Prep Lab J-2-B	Al, Cd, Cu, Pb, Zn	03/28/05	637	JB
M4251	P2	2318*346	Diss - MW	Prep Lab J-2-B	Cd, Cu, Pb, Zn	03/28/05	637	JB
M4252	P1	2318*347	Total - MW	Prep Lab J-2-B	Al, Cd, Cu, Pb, Zn	03/28/05	721	JB
M4252	P1	2318*348	Diss - MW	Prep Lab J-2-B	Cd, Cu, Pb, Zn	03/28/05	721	JB
M4253	M4	2318*349	Total - MW	Prep Lab J-2-B	Al, Cd, Cu, Pb, Zn, and Hg	03/28/05	814	JB
M4253	M4	2318*350	Diss - MW	Prep Lab J-2-B	Cd, Cu, Pb, Zn	03/28/05	814	JB
M4254	M3.3	2318*351	Total - MW	Prep Lab J-2-B	Al, Cd, Cu, Pb, Zn	03/28/05	857	JB
M4254	M3.3	2318*352	Diss - MW	Prep Lab J-2-B	Cd, Cu, Pb, Zn	03/28/05	857	JB
M4255	SN12	2318*353	Total - MW	Prep Lab J-2-B	Al, Cd, Cu, Pb, Zn	03/28/05	910	JB
M4255	SN12	2318*354	Diss - MW	Prep Lab J-2-B	Cd, Cu, Pb, Zn	03/28/05	910	JB
M4256	BJ-EST	2318*355	Total - MW	Prep Lab J-4-C	Al, Cd, Cu, Pb, Zn	03/28/05	922	JB
M4256	BJ-EST	2318*356	Diss - MW	Prep Lab J-4-C	Cd, Cu, Pb, Zn	03/28/05	922	JB
M4257	M3.1	2318*357	Total - MW	Prep Lab J-4-C	Al, Cd, Cu, Pb, Zn, and Hg	03/28/05	942	JB
M4257	M3.1	2318*358	Diss - MW	Prep Lab J-4-C	Cd, Cu, Pb, Zn	03/28/05	942	JB
M4258	M3.1DUP	2318*359	Total - MW	Prep Lab J-4-C	Al, Cd, Cu, Pb, Zn, and Hg	03/28/05	942	JB
M4258	M3.1DUP	2318*360	Diss - MW	Prep Lab J-4-C	Cd, Cu, Pb, Zn	03/28/05	942	JB
M4259	M6	2318*361	Total - MW	Prep Lab J-4-C	Al, Cd, Cu, Pb, Zn	03/28/05	1057	JB
M4259	M6	2318*362	Diss - MW	Prep Lab J-4-C	Cd, Cu, Pb, Zn	03/28/05	1057	JB
M4260	DY01	2318*363	Total - MW	Prep Lab J-4-C	Al, Cd, Cu, Pb, Zn	03/28/05	1002	JB
M4260	DY01	2318*364	Diss - MW	Prep Lab J-2-C	Cd, Cu, Pb, Zn	03/28/05	1002	JB
M4262	PL10	2318*365	Total - MW	Prep Lab J-2-C	Al, Cd, Cu, Pb, Zn	03/28/05	754	JB
M4262	PL10	2318*366	Diss - MW	Prep Lab J-2-C	Cd, Cu, Pb, Zn	03/28/05	754	JB
M4263	PL11	2318*367	Total - MW	Prep Lab J-2-C	Al, Cd, Cu, Pb, Zn	03/28/05	831	JB
M4263	PL11	2318*368	Diss - MW	Prep Lab J-2-C	Cd, Cu, Pb, Zn	03/28/05	831	JB
M4264	PL12	2318*369	Total - MW	Prep Lab J-2-C	Al, Cd, Cu, Pb, Zn	03/28/05	846	JB
M4264	PL12	2318*370	Diss - MW	Prep Lab J-2-C	Cd, Cu, Pb, Zn	03/28/05	846	JB

cc: Project Manager/Central File
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SAMPLE LOGIN

(SOP# MSL-A-001

Project Manager: Brandenberger
Date Received: 4/1/2005
Batch: 10

PROJECT: FY05 Dyes Storm 2

FW = Freshwater

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Start Time	Sample Type
T1313	SW6	2318*391	SW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	2036	FC
T1313	SW6	2318*392	SW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	2036	FC
T1314	B-ST12	2318*393	SW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	1907	FC
T1314	B-ST12	2318*394	SW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	1907	FC
T1308	BI-SBC	2318*395	STW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	1849	FC
T1308	BI-SBC	2318*396	STW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	1849	FC
T1309	BA	2318*397	STW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	2000	EC-I
T1309	BA	2318*398	STW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	2000	EC-I
T1310	CC	2318*399	STW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	2157	EC-I
T1310	CC	2318*400	STW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	2157	EC-I
T1311	SC	2318*401	STW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	2032	EC-I
T1311	SC	2318*402	STW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	2032	EC-I
T1312	CH	2318*403	STW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	1819	EC-I
T1312	CH	2318*404	STW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	1819	EC-I
T1315A	B-ST01	2318*405	SW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	1750	G
T1315A	B-ST01	2318*406	SW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	1750	G
T1315B	B-ST01	2318*407	SW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	30	G
T1315B	B-ST01	2318*408	SW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	30	G
T1315C	B-ST01	2318*409	SW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	955	G
T1315C	B-ST01	2318*410	SW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	955	G
G1219	KAR-WWTP	2318*411	WWTP	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	04/01/05	730	EC-G
G1219	KAR-WWTP	2318*412	WWTP	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	04/01/05	730	EC-G
T1315	B-ST01	2318*441	SW	Total - FW	L-1-C	HG	JMB	03/31/05	1750	EC-G
ORGANICS										
T1313	SW6	2318*445	SW	Total - FW	Outside Refrig	ORGANICS	JMB	03/31/05	2036	FC
T1314	B-ST12	2318*446	SW	Total - FW	Outside Refrig	ORGANICS	JMB	03/31/05	1907	FC
T1308	BI-SBC	2318*447	STW	Total - FW	Outside Refrig	ORGANICS	JMB	03/31/05	1849	FC
T1311	SC	2318*450	STW	Total - FW	Outside Refrig	ORGANICS	JMB	03/31/05	2032	EC-I
T1315	B-ST01	2318*452	SW	Total - FW	Outside Refrig	ORGANICS	JMB	03/31/05	1750	EC-G

cc: Project Manager/Central File
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SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 3/31/2005
Batch: 9

PROJECT: Wet Season Baseflow FY05

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Start Time	Sample Type
T1316	BI-SBC	2318*453	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1120	D
T1317	BA	2318*455	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1110	D
T1318	CC	2318*457	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1120	D
T1319	SC	2318*459	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1110	D
T1320	CH	2318*461	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1110	D
T1321	SW6	2318*463	SW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1110	D
T1322	B-ST12	2318*465	SW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1110	D
T1323	B-ST01	2318*467	SW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1400	G
T1324	GC-SAN	2318*469	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1335	G
T1325	BL	2318*471	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1325	G
T1326	OC	2318*473	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1300	G
G1209	B-WWTP	2318*475	WWTP	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	838	EC-G
G1201	KAR-WWTP	2318*481	WWTP	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	830	EC-G
T1316	BI-SBC	2318*454	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1120	D
T1317	BA	2318*456	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1110	D
T1318	CC	2318*458	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1120	D
T1319	SC	2318*460	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1110	D
T1320	CH	2318*462	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1110	D
T1321	SW6	2318*464	SW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1110	D
T1322	B-ST12	2318*466	SW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1110	D
T1323	B-ST01	2318*468	SW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1400	G
T1324	GC-SAN	2318*470	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1335	G
T1325	BL	2318*472	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1325	G
T1326	OC	2318*474	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1300	G
G1209	B-WWTP	2318*476	WWTP	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	838	EC-G
G1201	KAR-WWTP	2318*482	WWTP	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	830	EC-G

cc: Project Manager/Central File
Login File

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 3/31/2005
Batch: 9

PROJECT: Wet Season Baseflow FY05

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Start Time	Sample Type
ORGANICS:										
T1316	BI-SBC	2318*504	STW	Total - FW	Outside Refrig	ORGANICS	JMB	03/30/05	1120	D
T1318	CC	2318*506	STW	Total - FW	Outside Refrig	ORGANICS	JMB	03/30/05	1120	D
T1320	CH	2318*508	STW	Total - FW	Outside Refrig	ORGANICS	JMB	03/30/05	1110	D
T1321	SW6	2318*509	SW	Total - FW	Outside Refrig	ORGANICS	JMB	03/30/05	1110	D
T1322	B-ST12	2318*510	SW	Total - FW	Outside Refrig	ORGANICS	JMB	03/30/05	1110	D
T1323	B-ST01	2318*511	SW	Total - FW	Outside Refrig	ORGANICS	JMB	03/30/05	1400	G

cc: Project Manager/Central File
Login File

SAMPLE LOGIN

(SOP# MSL-A-001

Project Manager: Brandenberger
Date Received: 4/1/2005
Batch: 10

PROJECT: Make up event for Dyes 1 BI-SBC

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Start Time	Sample Type
T1300	BI-SBC	2318*454B	STW	Total	I-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	04/10/05	2047	FC
T1300	BI-SBC	2318*455B	STW	Dissolved	I-1-B	Cd, Cu, Pb, Ag and Zn	JMB	04/10/05	2047	FC
ORGANICS										
T1300	BI-SBC	2318*453B	STW	Total	Outside Refrig	ORGANICS	JMB	04/10/05	2047	FC

Composite Ratio Worksheet: 2005 Storm Water Organic Contaminants

- Gorst
- Sinclair Inlet
- Dyes Inlet

Storm #1 ENVVEST FY05
Gorst Event #1: 17 - 18 Jan 05
Compositing Scheme for Stormwater Sites

Lab ID Series	**T1100-**										
Station ID	**LMK136**										
Bottle	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**	**K**
Date	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	18-Jan	18-Jan	18-Jan
Time	0054	0354	0654	0954	1203	1503	1803	2103	0003	0303	0603
Compositing %	5%	10%	0%	15%	25%	15%	10%	5%	5%	5%	5%
Tide Level	going low	low	going high	high	going low	low	low	going high	high	going low	low
% Full	100	100	20	60	100	100	100	100	100	100	85

Lab ID Series	**T1104-**										
Station ID	**LMK122**										
Bottle	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**	**K**
Date	16-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	18-Jan	18-Jan
Time	2357	0257	0557	0857	1157	1457	1757	2057	2357	0257	0557
Compositing %	5%	5%	5%	15%	25%	10%	10%	10%	5%	5%	5%
Tide Level	going low	low	going high	high	going low	low	low	going high	high	going low	low
% Full	100	100	100	100	100	100	100	100	100	100	100

Lab ID Series	**T1105-**									
Station ID	**LMK038**									
Bottle	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**
Date	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	18-Jan	18-Jan
Time	0213	0513	0813	1113	1413	1713	2013	2313	0213	0513
Compositing %	5%	10%	20%	20%	15%	10%	5%	5%	5%	5%
Tide Level	na									
% Full	100	100	100	100	100	100	100	100	100	100

Lab ID Series	**T1106-**										
Station ID	**PO-POBLVD**										
Bottle	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**	**K**
Date	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	18-Jan	18-Jan	18-Jan
Time	0047	0347	0647	0947	1247	1547	1847	2147	0047	0347	0647
Compositing %	5%	5%	5%	15%	20%	15%	10%	10%	5%	5%	5%
Tide Level	na										
% Full	100	100	100	100	100	100	100	100	100	100	90

Storm #2 ENVVEST FY05
Gorst Event #2: 22 Jan 05
Compositing Scheme for Stormwater Sites

Lab ID Series	**T1107-**					
Station ID	**LMK136**					
Bottle	**A**	**B**	**C**	**D**	**E**	
Date	22-Jan	22-Jan	22-Jan	22-Jan	22-Jan	
Time	0642	0942	1242	1542	1842	
Tide Level	low	going high	high	going low	low	
% Full	100	100	100	100	75	Total Storm Flow (cubic ft)
Flow (cubic ft)	35019	26694	32319	32778	24210	163,053
%of flow	21.5%	16%	20%	20%	15%	93%
COMPOSITE	**25%**	**20%**	**10%**	**30%**	**15%**	**100%**

Lab ID Series	**T1111-**					
Station ID	**LMK122**					
Bottle	**A**	**B**	**C**	**D**	**E**	
Date	22-Jan	22-Jan	22-Jan	22-Jan	22-Jan	
Time	0922	1222	1522	1822	2122	
Tide Level	low	going high	high	going low	low	
% Full	100	100	100	100	40	Total Storm Flow (cubic ft)
Flow (cubic ft)	27324	34272	36918	45387	12024	170,658
%of flow	16%	20%	22%	27%	7%	91%
COMPOSITE	**20%**	**20%**	**25%**	**30%**	**5%**	**100%**

Lab ID Series	**T1112-**					
Station ID	**LMK038**					
Bottle	**A**	**B**	**C**	**D**	**E**	
Date	22-Jan	22-Jan	22-Jan	22-Jan	22-Jan	
Time	0821	1121	1421	1721	2021	
Tide Level	na					
% Full	100	100	100	100	50	Total Storm Flow (cubic ft)
Flow (cubic ft)	963	1377	1107	1350	153	5,445
%of flow	18%	25%	20%	25%	3%	91%
COMPOSITE	**25%**	**25%**	**20%**	**25%**	**5%**	**100%**

Lab ID Series	**T1113-**					
Station ID	**PO-POBLVD**					
Bottle	**A**	**B**	**C**	**D**	**E**	
Date	22-Jan	22-Jan	22-Jan	22-Jan	22-Jan	
Time	0628	0928	1228	1528	1828	
Tide Level	na					
% Full	100	100	100	100	80	Total Storm Flow (cubic ft)
Flow (cubic ft)	*Flowlink shows total flow of -25k; bulk of positive flow in Bottle A					
%of flow	Use LMK136 compositing plan as a guide					0%
COMPOSITE	**35%**	**20%**	**15%**	**15%**	**15%**	**100%**

Storm #3 ENVVEST FY05
Sinclair Event #1: 28 Feb - 1 Mar 05
Compositing Scheme for Stormwater Sites

Lab ID Series	**T1202**								
Station ID	**B-ST28**								
Bottle		**A**	**B**	**C**	**D**	**E**	**F**	**G**	
Date		28-Feb	28-Feb	28-Feb	1-Mar	1-Mar	1-Mar	1-Mar	
Time		1521	1821	2121	0021	0321	0621	0921	
Tide Level	na	na	na	na	na	na	na		
% Full		50	100	100	100	0	45	100	Total Storm Flow (cubic ft)
Flow (cubic ft)		4824	2142	8037	9621	11655	2223	414	41,967
%of flow		11%	5%	19%	23%	28%	5%	1%	93%
COMPOSITE		**20%**	**10%**	**30%**	**35%**	**0%**	**5%**	**0%**	**100%**

Lab ID Series	**T1203**								
Station ID	**B-ST/CSO16**								
Bottle		**A**	**B**	**C**	**D**	**E**	**F**	**G**	
Date		28-Feb	28-Feb	28-Feb	28-Feb	1-Mar	1-Mar	1-Mar	
Time		1452	1752	2052	2352	0252	0552	0852	
Tide Level	na	na	na	na	na	na	na		
% Full		100	100	100	100	100	100	100	Total Storm Flow (cubic ft)
Flow (cubic ft)		2124	1134	1611	2664	3033	423	0	11,574
%of flow		18.4%	10%	14%	23%	26%	4%	0%	95%
COMPOSITE		**20%**	**10%**	**15%**	**25%**	**25%**	**5%**	**0%**	**100%**

Lab ID Series	**T1204**								
Station ID	**PSNS015**								
Bottle		**A**	**B**	**C**	**D**	**E**	**F**	**G**	
Date		28-Feb	28-Feb	28-Feb	1-Mar	1-Mar	1-Mar	1-Mar	
Time		1741	2041	2341	0241	0541	0841	1141	
Tide Level	low to high	high	low	low to high	high	high to low	low		
% Full		100	100	100	100	100	100	25	Total Storm Flow (cubic ft)
Flow (cubic ft)		1755	11619	17640	3987	2979	7965	414	43,767
%of flow		4%	27%	40%	9%	7%	18%	1%	106%
COMPOSITE		**5%**	**35%**	**40%**	**15%**	**0%**	**5%**	**0%**	**100%**

Lab ID Series	**T1205**	Note: Physio-Chem data indicate salt water mixing w/ storm water at all periods EXCEPT during bottles C and D; take all samples from these bottles							
Station ID	**PSNS124**								
Bottle		**A**	**B**	**C**	**D**	**E**	**F**	**G**	
Date		28-Feb	28-Feb	28-Feb	1-Mar	1-Mar	1-Mar	1-Mar	
Time		1726	2026	2326	0226	0526	0826	1126	
Tide Level	low to high	high	low	low to high	high	high to low	low		
% Full		100	100	100	100	100	100	45	Total Storm Flow (cubic ft)
Flow (cubic ft)		351	2484	16146	2745	-120	2403	3717	24849
%of flow		1%	6%	37%	6%	0%	5%	8%	63%
COMPOSITE		**0%**	**0%**	**80%**	**20%**	**0%**	**0%**	**0%**	**100%**

Lab ID Series	**T1206**	Note: Physio-Chem data indicate partial salt-water mixing in bottle B ONLY. No samples from this bottle							
Station ID	**PSNS126**								
Bottle		**A**	**B**	**C**	**D**	**E**	**F**	**G**	
Date		28-Feb	28-Feb	28-Feb	1-Mar	1-Mar	1-Mar	1-Mar	
Time		1732	2032	2332	0232	0532	0832	1132	
Tide Level	low to high	high	low	low to high	high	high to low	low		
% Full		100	100	100	100	100	100	50	Total Storm Flow (cubic ft)
Flow (cubic ft)		441	10602	17082	17352	-279	3294	63	53019
%of flow		1%	24%	39%	40%	-1%	8%	0%	111%
COMPOSITE		**10%**	**0%**	**50%**	**40%**	**0%**	**0%**		**100%**

Storm #4 ENVVEST FY05
Sinclair Event #2: 19 - 20 Mar 05
Compositing Scheme for Stormwater Sites

Lab ID Series	T1209										
Station ID	B-ST28										
Bottle		A	B	C	D	E	F	G	H		
Date		19-Mar	19-Mar	19-Mar	19-Mar	20-Mar	20-Mar	20-Mar	20-Mar		
Time		1254	1554	1854	2154	0054	0354	0654	0954		
Tide Level	na	na	na	na	na	na	na	na			
% Full		100	100	95	100	100	100	100	80	Total Storm Flow (cubi	Check
Flow (cubic ft)		32850	45711	2952	4734	2889	9477	20205	2772	130,356	121590 121590
%of flow		25%	38%	2%	4%	2%	7%	15%	2%	96%	ballpark check
COMPOSITE		30%	40%	0%	5%	0%	10%	15%		100%	
Volume in Jar		3.4	3.4	3.2	3.4	3.4	3.4	3.4	2.7		
Volume needed for 5L		1.5	2	0	0.25	0	0.5	0.75	0	5	
Vol. for 10L		3	4	0	0.5	0	1	1.5	0	10	

Lab ID Series	T1210										
Station ID	B-ST/CSO16										
Bottle		A	B	C	D	E	F	G	H		
Date		19-Mar	19-Mar	19-Mar	19-Mar	20-Mar	20-Mar	20-Mar	20-Mar		
Time		1308	1608	1908	2208	0108	0408	0708	1008		
Tide Level	na	na	na	na	na	na	na	na			
% Full		100	100	100	100	100	100	100	50	Total Storm Flow (cubi	Check
Flow (cubic ft)		13473	10548	0	819	801	3888	1512	0	33,687	31041 31041
%of flow		40%	31%	0%	2%	2%	12%	4%	0%	92%	ballpark check
COMPOSITE		45%	35%	0%	0%	0%	15%	5%		100%	
Volume in Jar		3.4	3.4	3.4	3.4	3.4	3.4	3.4	1.7		
Volume needed for 5L		2.25	1.75	0	0	0	0.75	0.25	0	5	
Vol. for 10L		4.5	3.5	0	0	0	1.5	0.5	0	10	

Lab ID Series	T1211										
Station ID	PSNS015										
Bottle		A	B	C	D	E	F	G	H		
Date		19-Mar	19-Mar	19-Mar	19-Mar	20-Mar	20-Mar	20-Mar	20-Mar		
Time		1238	1538	1838	2138	0038	0338	0638	0938		
Tide Level	high to low	low	low	low to high	high	high to low	low	low			
% Full		100	100	100	100	100	100	100	85	Total Storm Flow (cubi	Check
Flow (cubic ft)		60804	80451	2484	3672	12789	29277	16128	0	220,005	205605 205605
Flow (cubic ft)		60804	80451	2484			14638.5	16128	0	174,506	174505.5 174506
%of flow		35%	46%	1%	0%	0%	8%	9%	0%	100%	ballpark check
COMPOSITE		35%	50%	0%	0%	0%	5%	10%	0%	100%	
Volume in Jar		3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.9		
Volume needed for 5L		1.75	2.5	0	0	0	0.25	0.5	0	5	
Vol. for 10L		3.5	5	0	0	0	0.5	1	0	10	

Lab ID Series	T1212										
Station ID	PSNS124										
Bottle		A	B	C	D	E	F	G	H		
Date		19-Mar	19-Mar	19-Mar	19-Mar	20-Mar	20-Mar	20-Mar	20-Mar		
Time		1230	1530	1830	2130	0030	0330	0630	0930		
Tide Level	high to low	low	low	low to high	high	high to low	low	low			
% Full		100	100	100	100	100	100	100	70	Total Storm Flow (cubi	Check
Flow (cubic ft)		14661	22005	2925	0	0	1575	4644	1629	56,493	47439 47439
%of flow		26%	39%	5%	0%	0%	3%	8%	3%	84%	ballpark check
COMPOSITE		35%	50%	0%	0%	0%	5%	10%	0%	100%	
Volume in Jar		3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.4		
Volume needed for 5L		1.75	2.5	0	0	0	0.25	0.5	0	5	
Vol. for 10L		3.5	5	0	0	0	0.5	1	0	10	

Lab ID Series	T1213										
Station ID	PSNS126										
Bottle		A	B	C	D	E	F	G	H		
Date		19-Mar	19-Mar	19-Mar	19-Mar	20-Mar	20-Mar	20-Mar	20-Mar		
Time		1227	1527	1827	2127	0027	0327	0627	0927		
Tide Level	high to low	low	low	low to high	high	high to low	low	low			
% Full		100	100	100	100	100	100	100	60	Total Storm Flow (cubi	Check
Flow (cubic ft)		75114	68904	0	0	4248	4374	25335	1782	186,876	179757 179757
%of flow		40%	37%	0%	0%	2%	2%	14%	1%	96%	ballpark check
COMPOSITE		45%	40%	0%	0%	0%	5%	10%	0%	100%	
Volume in Jar		3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.0		
Volume needed for 5L		2.25	2	0	0	0	0.25	0.5	0	5	
Vol. for 10L		4.5	4	0	0	0	0.5	1	0	10	

Lab ID Series	T1221										
Station ID	B-ST12										
Bottle		A	B	C	D	E	F	G	H		
Date		19-Mar	19-Mar	19-Mar	19-Mar	20-Mar	20-Mar	20-Mar	20-Mar		
Time		1318	1618	1918	2218	0118	0418	0718	1018		
Tide Level	na	na	na	na	na	na	na	na			
% Full		80	100	100	100	100	100	100	90	Total Storm Flow (cubic ft)	
Flow (cubic ft)		6255	4572	1152	3501	3933	5265	3861	2970	33,174	31509 31509
%of flow		19%	14%	3%	11%	12%	16%	12%	9%	95%	ballpark check
COMPOSITE		30%	20%	0%	10%	10%	15%	10%	5%	100%	
Volume in Jar		2.7	3.4	3.4	3.4	3.4	3.4	3.4	3.1		
Volume needed for 5L		1.5	1	0	0.5	0.5	0.75	0.5	0.25	5	
Vol. for 10L		3	2	0	1	1	1.5	1	0.5	10	

Storm #5 ENVVEST FY05
Dyes Inlet Event #1: 26 Mar 05
Compositing Scheme for Stormwater Sites

Lab ID Series	**T1305**							
Station ID	**SW6**							
Bottle	**A**	**B**	**C**	**D**	**E**	**F**		
Date	26-Mar	26-Mar	26-Mar	26-Mar	26-Mar	26-Mar		
Time	0140	0440	0740	1040	1340	1640		
Tide Level	low to high	high	high to low	low	low to high	high		
% Full	100	100	100	100	100	100	Total Storm Flow (cubic ft)	ballpark check
Flow (cubic ft)	60759	121671	217089	136017	82044	34299	710,082	651879
%of flow	9%	19%	31%	21%	12%	5%	95%	
COMPOSITE	**10%**	**20%**	**30%**	**25%**	**10%**	**5%**	**100%**	

Lab ID Series	**T1306**							
Station ID	**B-ST12**							
Bottle	**A**	**B**	**C**	**D**	**E**	**F**		
Date	26-Mar	26-Mar	26-Mar	26-Mar	26-Mar	26-Mar		
Time	0136	0436	0736	1036	1336	1636		
Tide Level	na	na	na	na	na	na		
% Full	100	100	100	100	90	90	Total Storm Flow (cubic ft)	ballpark check
Flow (cubic ft)	8262	11664	6534	3501	13356	6849	54,072	50166
%of flow	15%	22%	12%	6%	25%	13%	93%	
COMPOSITE	**20%**	**25%**	**30%**	**15%**	**10%**	**0%**	**100%**	

Rainfall	0.29	0.32	0.35	0.23	0.1		1.29
& of total rainfall	0.224806202	0.248062016	0.271317829	0.178294574	0.07751938		
	22	25	27	18	8		100
rainfall based compositing %	20	25	30	15	10		100

Sampling Ends Total Sampling Period

Storm BI-SBC MKUP Event ENVVEST FY05
BI-SBC Makeup Event; Dyes #3: 10 April 05
Proposed Compositing Scheme for Stormwater Sites

Lab ID Series	**T1300**							
Station ID	**BI-SBC**		12-HR					
Bottle	**A**	**B**	**C**	**D**	**E**			
Date	10-Apr	11-Apr						
Time	20:47	2:47						
Tide Level	NA	NA						
% Full	100	100				Total Storm Flow (cubic ft)	ballpark check	
Flow (cubic ft)	45318	69139				115,532	114457	
%of flow	39%	60%	0%	0%	0%	99%		
COMPOSITE	**40%**	**60%**				**100%**		
		3						

Storm #6 ENVVEST FY05
Dyes Inlet Event #2: 1 April 05
Compositing Scheme for Stormwater Sites

Lab ID Series	**T1308**											
Station ID	**BI-SBC**				30 hrs							
Bottle	**A**	**B**	**C**	**D**	**E**							
Date	31-Mar	1-Apr	1-Apr	1-Apr								
Time	1849	0049	0649	1249								
Tide Level	NA	NA	NA	NA								
% Full	100	100	100	20							Total Storm Flow (cubic ft)	ballpark check
Flow (cubic ft)	52690	107429	95340	5298							264,504	260757
%of flow	20%	41%	36%	2%	0%						99%	
COMPOSITE	**20%**	**45%**	**35%**	**0%**							**100%**	
vol. Available (L)	**3.7**	**3.7**	**3.7**	**0.7**								
Vol for 5L	**1.0**	**2.3**	**1.8**	**0.0**								
vol for 10L	**2.0**	**4.5**	**3.5**	**0.0**								
	1.6	**3.6**	**2.8**	**0.0**		8						

Lab ID Series	**T1313**											
Station ID	**SW6**								30 hrs			
Bottle	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**		
Date	31-Mar	31-Mar	1-Apr	1-Apr	1-Apr							
Time	2036	2336	0236	0536	0836							
Tide Level	sl - rising	high	sl-fall	slack	high							
% Full	100	100	100	100	65						Total Storm Flow (cubic ft)	ballpark check
Flow (cubic ft)	60849	100224	102969	30411	11223						330,390	305676
%of flow	18%	30%	31%	9%	3%	0%	0%	0%	0%	0%	93%	
COMPOSITE	**20%**	**35%**	**40%**	**5%**	**0%**						**100%**	
vol. Available (L)	**3.7**	**3.7**	**3.7**	**3.7**								
Vol for 5L	**1.0**	**1.8**	**2.0**	**0.3**								
vol for 10L	**2.0**	**3.5**	**4.0**	**0.5**								
			peak of storm		tidally influenced							

Lab ID Series	**T1314**											
Station ID	**B-ST12**								30 hrs			
Bottle	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**		
Date	31-Mar	31-Mar	1-Apr	1-Apr	1-Apr							
Time	19:07	22:07	1:07	4:07	7:07							
Tide Level	NA	NA	NA	NA	NA							
% Full	100	100	100	95	80						Total Storm Flow (cubic ft)	ballpark check
Flow (cubic ft)	9567	9855	11106	9819	4914						49,581	45261
%of flow	19%	20%	22%	20%	10%	0%	0%	0%	0%	0%	91%	
COMPOSITE	**25%**	**20%**	**30%**	**20%**	**5%**						**100%**	
vol. Available (L)	**3.7**	**3.7**	**3.7**	**3.5**	**3.0**							
Vol for 5L	**1.3**	**1.0**	**1.5**	**1.0**	**0.3**							
vol for 10L	**2.5**	**2.0**	**3.0**	**2.0**	**0.5**							

front loaded to get first flush

References

Ecology (Washington State Department of Ecology) 1998. Final 1998 Section 303(d) List -WRIA 15: Kitsap Watershed. Available online: http://www.ecy.wa.gov/programs/wq/303d/1998/1998_by_wrias.html

TEC (The Environmental Company). 2004a. Quality Assurance Project Plan for Sampling and Analysis of In-Stream and Storm Water Chemical and Flow Characteristics PSNS Project ENVVEST Study Area. 2005 Sampling Season. Contract No.: N44255-98-D-4416, Contract Task Order: 0068.TEC, Inc., Bellevue, Washington.

TEC (The Environmental Company). 2004b. Sampling and Analysis Plan of In-Stream and Storm Water Chemical and Flow Characteristics PSNS Project ENVVEST Study Area. 2005 Sampling Season. Contract No.: N44255-98-D-4416, Contract Task Order: 0068.TEC, Inc., Bellevue, Washington.

TEC (The Environmental Company). 2004c. Health and Safety Plan for Sampling and Analysis of In-Stream and Storm Water Chemical and Flow Characteristics PSNS Project ENVVEST Study Area. 2005 Sampling Season. Contract No.: N44255-98-D-4416, Contract Task Order: 0068.TEC, Inc., Bellevue, Washington.

TEC (The Environmental Company). 2005a. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Winter 2005, Field Sampling Report #1 for Storm Sampling Event #1, Gorst Event Sites, 17-18 January 2005. TEC, Inc., Bellevue, Washington.

TEC (The Environmental Company). 2005b. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Winter 2005, Field Sampling Report #2 for Storm Sampling Event #2, Gorst Event Sites, 22 January 2005. TEC, Inc., Bellevue, Washington.

TEC (The Environmental Company). 2005c. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Winter 2005, Field Sampling Report #3, Sinclair Event Sites, 28 February – 1 March, 2005. TEC, Inc., Bellevue, Washington.

TEC (The Environmental Company). 2005d. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Winter 2005, Field Sampling Report #4, Sinclair Event Sites, 19-20 March, 2005. TEC, Inc., Bellevue, Washington.

TEC (The Environmental Company). 2005e. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Winter 2005, Field Sampling Report #5, Dyes Event Sites, 26 March, 2005. TEC, Inc., Bellevue, Washington.

TEC (The Environmental Company). 2005f. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Winter 2005, Field Sampling Report #6, Dyes Event Sites, 31 March – 1 April, 2005. TEC, Inc., Bellevue, Washington.

TEC (The Environmental Company). 2005g. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Springbrook Creek Sampling Event, 10-11 April, 2005. TEC, Inc., Bellevue, Washington.